

ioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced. door unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided and

Большая библиотека технической документации http://splitoff.ru/tehn-doc.html каталоги, инструкции, сервисные мануалы, схемы.



The air conditioners manufactured by Daikin Industries have received ISO 9000 series certification for quality assurance.

(ISO9001) JMI-0107 JQA-0495





The airconditioning factories of Daikin Industries have received environmental management system standard ISO 14001

Sakai Plant Certificate Number. JQA-E80009 Yodogawa Plant Certificate Number. EC99J2057

Dealer

DAIKIN INDUSTRIES, LTD.

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http://www.daikin.com/global/

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•The specifications, designs, and information in this brochure are subject to change without notice.











INVERTER **HEAT PUMP** TYPE 50 Hz INVERTER **HEAT RECOVERY** TYPE 50 Hz



The VRVII is now four times better. Even earth friendly with a higher COP.

IRVII—a compilation of cut ting-edge technologies derived from a Customer First policy

Daikin has put c omprehensive c utting-edge technologies into the VRV II, derived from its Customer First policy and 20 years of experience with the VRV system.

The results are quieter operation, smaller units, sleeker design, and simpler installation and maintenance, with less impact on the environment with higher COP.

Aero fitting grille and aero spiral fan

These new features achieve a low noise fan with a large airflow, and realize a compact casing together with the compressor linking technology.

Aero spiral fan

Bending of the fan blade edge reduces turbulence, resulting in less pressure loss.



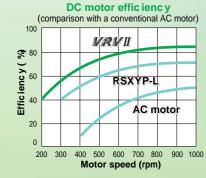
Aero fitting grille

New shape promotes a spiral discharge airflow, resulting in reduced pressure loss.

DC fan motor-----

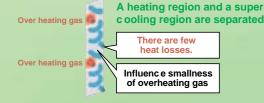
- First use across entire range of models (from 5 to 48 HP)
- Efficiency improvement by 40% especially in low speed.

DC fan motor structure



e-Pass heat exchanger.....

To optimize the path of heat exchanger.



New SCe-bridge Circ uit

The new sub-cool feature prevents the flushing of liquid refrigerant from long piping due to the effects of SCe-bridge.

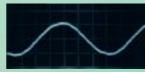
This can reduce the refrigerant volume required in piping and thereby enable a reduction in piping size.

New Compact aero box

Realizes a compact casing by stacking the Inverter and control pcbs plus optimizing the internal design to suit airflow speed. This achieves lower noise and reduces the power required by the large-diameter fanned outdoor unit.

Smooth sine wave DC Inverter

By adoption of the Sine Wave which smoothes rotation of a motor, operation efficiency has improved sharply.



New Reluctance DC scroll compressor

High torque and efficiency is attained by employing neodymium magnets. Achieves 70% reduction in volume.

Sec ret to raising energy-efficiency!



Neodymium magnet is much more powerful than the widely used ferrite magnets





💙 R410A...

a refrigerant with "ZERO" ozone layerdepleting coefficient and no chlorone.

R410A is a new mixed refrigerant that exhibits superior safety characteristics. Even with a zero coefficient of ozone layer depletion, R410A offers a better performance to the conventional R22.



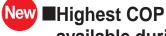
REYQ48 MY1B

• Refer to p.37 for combination details

URVII marks a significant advance over **URVI**.

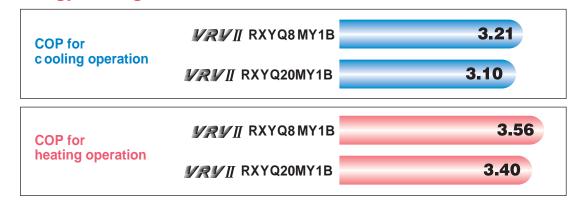
The new VRV II is a signific antly improved version of the original VRV, which revolutionized building air c onditioning. The latest in air c onditioning technologies are applied to fulfill all the needs of our c ustomers. The VRV II opens the door to the future of air c onditioning.





available during both cooling and heating operation

Top-c lass Energy Savings



Value represents that to be achieved by a single outdoor unit.

What is COP?

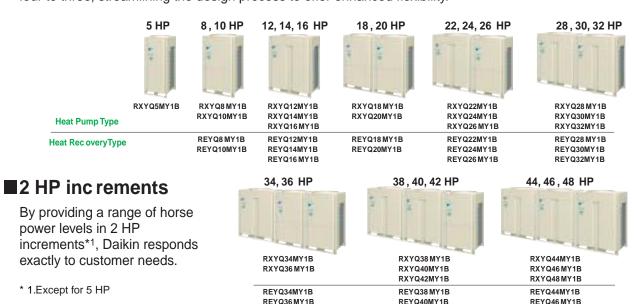
COP (Coefficient of Performance) indicates energy consumption efficiency. A higher COP means less electricity used, resulting in greater energy efficiency.

 $COP = \frac{Capacity (kW)}{Power consumption (kW)}$



New ■ A max imum 48 HP with built-in flex ibility

This level of power is a quantum leap over the previous 30 HP, taking Daikin into the top rank of the industry. The number of modules has been standardized from nine to six and the number of casings from four to three, streamlining the design process to offer enhanced flexibility.



New ■Indoor units

A wide range of indoor units includes 10 types and 63 models, so the needs of all customers can be precisely met.

Wide range of indoor units 10 series, 63 models

Туре	Model	Capac ity Range							
Туре	Wiodei	20 (0.8 HP)	25 (1 HP)	32 (1.25 HP)	40 (1.6 HP)				
Ceiling mounted cassette (Double flow)		FXCQ20MVE	FXCQ25MVE	FXCQ32MVE	FXCQ40MVE				
Ceiling mounted cassette (Multi flow) super cassette	-1		FXFQ25MVE	FXFQ32MVE	FXFQ40MVE				
600 x 600 multi flow ceiling mounted cassette	New	FXZQ20MVE	FXZQ25MVE	FXZQ32MVE	FXZQ40MVE				
Ceiling mounted cassette corner			FXKQ25MVE	FXKQ32MVE	FXKQ40MVE				
Ceiling mounted built-in		FXSQ20MVE	FXSQ25MVE	FXSQ32MVE	FXSQ40MVE				
Ceiling mounted duct					FXMQ40MVE				
Ceiling suspended				FXHQ32MVE					
Wall mounted		FXAQ20MVE	FXAQ25MVE	FXAQ32MVE	FXAQ40MVE New				
Floor standing		FXLQ20MVE	FXLQ25MVE	FXLQ32MVE	FXLQ40MVE				
Concealed floor standing		FXNQ20MVE	FXNQ25MVE	FXNQ32MVE	FXNQ40MVE				

			Capac ity Range				
50 (2 HP)	63 (2.5 HP)	80 (3.2 HP)	100 (4 HP)	125 (5 HP)	200 (8 HP)	250 (10 HP)	
FXCQ50MVE	FXCQ63MVE	FXCQ80MVE		FXCQ125MVE			Page 2
FXFQ50MVE	FXFQ63MVE	FXFQ80MVE	FXFQ100MVE	FXFQ125MVE			Page 20
FXZQ50MVE							Page 2
	FXKQ63MVE						Page 2
FXSQ50MVE	FXSQ63MVE	FXSQ80MVE	FXSQ100MVE	FXSQ125MVE			Page 2
FXMQ50MVE	FXMQ63MVE	FXMQ80MVE	FXMQ100MVE	FXMQ125MVE	FXMQ200MVE	FXMQ200MVE	Page 3
	FXHQ63MVE		FXHQ100MVE				Page 3
FXAQ50MVE New	FXAQ63MVE New						Page 3
FXLQ50MVE	FXLQ63MVE						Page 3
FXNQ50MVE	FXNQ63MVE						Page 34



Flex ible design



■An inc redible 50 %^{*1} reduction in installation space

The VRV II has drastically reduced the installation space required, making it the most space saving system in the industry.

Installation space (16 HP) * 1.At 16 HP 3.56 m² 1.88 m Approx. 50% reduction



■Neat appearance on the roof

All units have the same height, adding to neat appearance. All piping can be installed below the units.

RSXYP



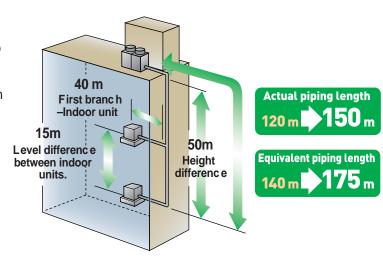
YRY II



■Piping length extended to 150 m*²

Industry' s longest actual piping length of 150 m provides even more flexibility during installation.

- * 2. Total piping length is 300 m
- * 3. As of October, 2002





■High external static pressure 6 mm HO

Daikin now offers 6 mm H2O external static pressure specification as standard (previously 5 mm H2O as an option) to meet the requirements of veranda installation.



External Static Pressure

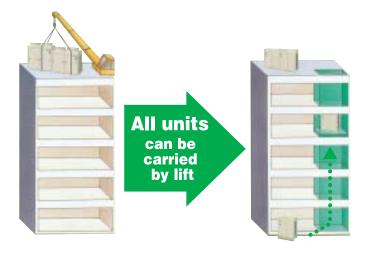


Easy installation



■Transportation by Lift

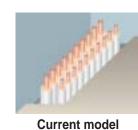
All units can be transported by lift. This makes installation dramatically easy, and effectively reduces time and labor.

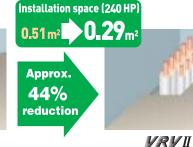




New ■Fewer pipes

VRV II requires fewer pipes and therefore less room for piping than VRV, resulting in a reduction in piping work and significant space saving.











■ Double backup operation in compressors and units

If one of the three compressors in an outdoor unit malfunctions, one of the other compressors takes over emergency operation. Furthermore, if one outdoor unit malfunctions in a system of more than 18 HP, other outdoor units provide emergency operation until repair is effected.





If one outdoor unit malfunctions.





Emergency operation occurs.

by remote control of the indoor unit



New ■ Duty c yc ling of c ompressor

The VRV II employs a system that balances the usage of each compressor in order to prolong itself and their stability. This duty cycling function covers a maximum of nine compressors. It switches starting sequence of multiple outdoor units.



New Ex tended operating range

By employing a high-pressure dome-type compressor, the operating range in heating has been extended from -15°C to -20°C.

operating range in heating **Outdoor temperature operating range** -15°CWB -20°CWB Heat Pump Series ■ Heat Recovery Series 43°C DB 43°C DB Heating 20 15.5°C WB 15.5°C WB -5°C DB -5°C DB -5°C WB -10 -20°C WB -20 °C WB



No.1 **Quiet operation**



■ Nighttime quiet operation function

2 modes*1 with low operating sound level at night.

Mode 1. Automatic mode

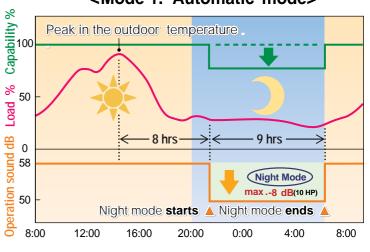
Set on the outdoor PCB. Time of maximum temperature is memorized. The low operating mode will become active 8 hours*2 after the peak temperature in the daytime, and operation will return to normal 9 hours*3 after that.

Mode 2. Customized mode

Starting time and ending time can be input. (External control adaptor for outdoor unit, DTA104A61 or DTA104A62, and a subsequently obtained timer are necessary.)

- * 1. Determine which mode to select depending on the climatic characteristics of each country.
- * 2. Initial setting. Can be selected from 6, 8 and 10 hours.
- * 3. Initial setting. Can be selected from 8, 9 and 10 hours.

<Mode 1. Automatic mode>



- Note: This function is available in setting at site
- The relationship of outdoor temperature (load) and time shown in the graph is just an example.

Environmental friendly

New Uses HFC R410A with zero ozone depletion potential

■ Reduced refrigerant volume

VRV II uses less refrigerant than VRV and hence has less environmental impact.

■Lead free PC boards

VRV II uses PC boards with no lead, making it even friendlier to earth.

■ Easily rec yc led c asing

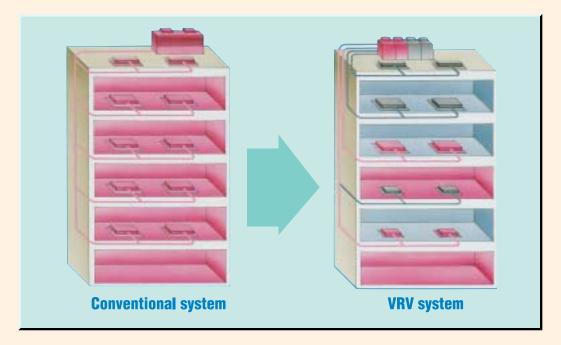
Galbarium, a material that requires no coating, is used for the bottom plate for easy recycling.



What are the advantages of a VRV system over central air conditioning systems?

Individual control

Conventional systems air c ondition a building as a whole, whereas the VRV system air c onditions each room individually. Hence it is ideal for the c onstantly c hanging oc c upancy of a typic al building. Even further, prec ise level c ontrol is possible that reacts to the exact c onditions in each room. Individual c ontrol promotes a far more ec onomic al and effic ient system.



Other advantages

Saves energy

- The heat recovery system supports separate heating and cooling in different rooms, making the system ideal for the constantly changing occupancy of a typical building.
- Using the HRV for ventilation dramatically boosts energy efficiency.

Conserves space

■ Space efficiency is enhanced by the compact size of the individual units, the long maximum piping length, and the ability to realize a large-scale air conditioning system with a single piping circuit.

Offers a wide selection of models

■ L ineup of heat pump types is 5 to 48 HP, and heat recovery types is 8 to 48 HP, both in 2 HP increments* . Indoor units consist of 10 types with a total of 63 models. This wide selection of models

makes it possible to build a system that perfectly suits the customer's requirements.

* Except for 5 HP

Operates over a broad temperature range

■ The lower end of the operating temperature range in heating has been extended from -15°C to -20°C.

Provides superior design flex ibility

- The extended maximum piping length gives more flexibility when designing the system.
- New compressor technology eliminates the need for piping calculations, which shortens the time needed for design.
- Layout changes can be made easily because the capacity of the indoor units can be up to 130% that of the outdoor units.
- Outdoor units can be placed on the roof where they have no effect on the design of the building interior.

Enhances ease of use

- Units are designed to operate quietly, and are also equipped with a function for silent operation especially at night.
- The controller is easy to operate and has many useful functions. Units can be controlled in each individual room.

Delivers ultimate reliability

- The self-diagnostic system identifies problems within the system quickly and accurately.
- The Auto Restart function ensures that operation is restored with the previous settings even if the power has been shut off.
- Units are controlled in each individual room, so local malfunctions does not cause the entire system to shut down.

Simplifies installation

- ■The lightweight, compact units can be transported using a regular lift.
- The pipes are few in number, making layout simpler.
- Units can be installed on each floor.
- Inspection after installation is straightforward.



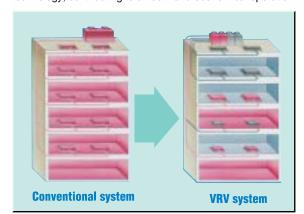


How does the **IRV** system benefit property owners?

The DAIKIN VRV system offers low running costs, considerable savings in both energy and space, and high reliability. The innovative inverter technology ensures sufficient air conditioning in every stage of operation.

Comfortable and Ec onomic al

■ Because each room is controlled individually, only those rooms requiring air conditioning are cooled or heated. In addition, thanks to inverter technology, the level of air conditioning can be precisely controlled depending on the condition of each room. High COP is achieved by employing cutting-edge technology, contributing to smooth and economical operation.



Heat Recovery Series

■ The VRV II series includes a Heat Recovery type, which allows simultaneous cooling and heating operation within the same refrigerant circuit, conserving even more energy by recovering the heat generated by the cooling operation and using it for heating.

HRV (Heat Reclaim Ventilation)

■The VRV system can be interlocked with Daikin's energy-saving HRV ventilation system. The HRV system exchanges heat between the supplied air and exhausted air in order to recover the heat energy contained in the exhausted air, thus allowing ventilation without increasing the load on the air conditioning system. Operating the HRV system interlocked with the air conditioning system further improves the efficiency of air conditioning.

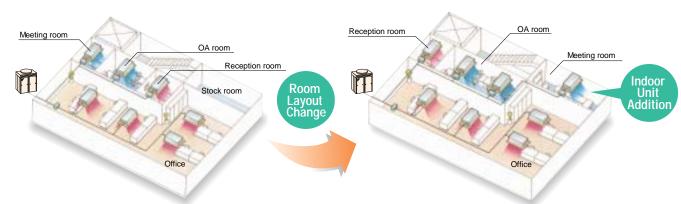
Adapts Easily to Any Floor Plan

- We offer a wide lineup of outdoor and indoor units to meet the needs of building size and interior design.
- The length of refrigerant piping places very few restrictions on design, thus allowing for greater flexibility in planning.

Adapts Easily to Layout Changes

■ Indoor units can be added up to 130% of the capacity of the outdoor unit to readily accommodate changes in floor layout. The heat recovery series in particular automatically selects cooling or heating

in each room, according to the relationship between set temperature and heat load, thus eliminating restriction on room usage.



Short Installation Time

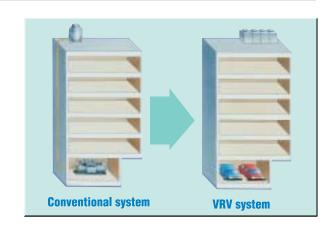
■ The Super Wring system and REFNET Piping system greatly simplify wiring and piping work, which, in turn, reduces installation time and cost. Installation by each floor is possible as necessary.

■ Central Control System

■ The complete lineup of central control units facilitates building large-scale, high-level central control systems that are easy to operate and control.

■ Effic ient Spac e Utilization

■ The VRV system can be used to develop a large-scale air conditioning system on a single refrigerant piping circuit, thus reducing the space required for air conditioning equipment. Because the difference in height between the indoor unit and the outdoor unit can be as large as 50 meters, even with a 15-story building all of the outdoor units can be placed on the rooftop for more efficient utilization of space.



High Reliability

- Conventional VAV systems or systems comprising a fan coil and chiller require an expensive, bulky standby system to prevent air conditioning in the entire building from being stopped when there is a problem in the system. The VRV system air-conditions each room individually, allowing any possible problems affect only the
- ■The VRV II system can duty cycle up to nine compressors to balance compressor usage for longevity and stability. Multiple outdoor units are switched with different starting sequences.
- By employing a high-pressure dome-type compressor, the operating range of heating has been extended from -15C° to

immediate system and not to require that all air conditioning be stopped. If an outdoor unit compressor malfunctions, another compressor takes over emergency operation. If an outdoor unit malfunctions in an over 18 HP system, another outdoor unit provides emergency operation until repair.

Low Operating Sound at Night

■ The nighttime quiet operation function reduces sound levels at night under two modes: Automatic—stores maximum temperature and activates quiet operation automatically 8 hours later; and Customized—sets start and end times manually.





What are the advanteges for consultant and design offices?

Daikin' s VRV systems include indoor and outdoor units available in a wide variety of models for all sizes of buildings and installation conditions. Long refrigerant piping lengths and other features put few restrictions on design for greater flex ibility in meeting the needs of the building.

Offers a wide selection of models

■ Lineup of heat pump types is 5 to 48 HP, and heat recovery types is 8 to 48 HP, both in 2 HP increments* . Indoor units consist of 10 types with a total of 63 models. This wide selection of models

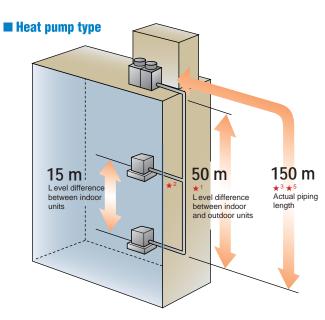
makes it possible to build a system that perfectly suits the customer's requirements.

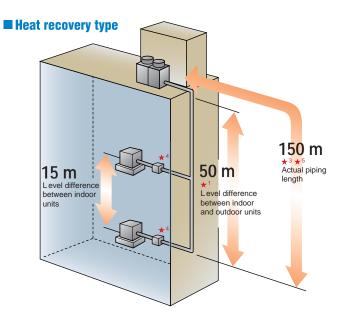
* Except for 5 HP

Long Piping Design

■ The refrigerant piping length between the indoor unit and outdoor unit in one system can extend up to 150 meters and the difference in height can be as great as 50 meters. These generous allowances make it possible to put all the outdoor

units on the rooftop in a 15-story building. The difference in height between indoor units in the same system can be as much as 15 meters, thus making it possible to cover four or five stories with a single system.

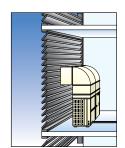




- ★¹ This value is based on the case where the outdoor unit is located above the indoor unit. If the outdoor unit is located underneath the indoor unit the level difference is a maximur
- ★2 The maximum actual piping length between the indoor unit and the first branch is 40 m.
- ★3 Equivalent pipe length between outdoor and indoor units ≤ 175 m
- ★⁴ The BS unit can be located anywhere between the indoor unit and outdoor unit, if installing after the first branch (REFNET JOINT or HEADER), the piping limit is less
- ★5 Total piping length ≤ 300 m

Can Be Installed for Each Floor

■ Since the external hydrostatic pressure of the outdoor unit fan motor is 6 mm H₂O, an outdoor unit can be placed on each floor using short-discharge ductwork.



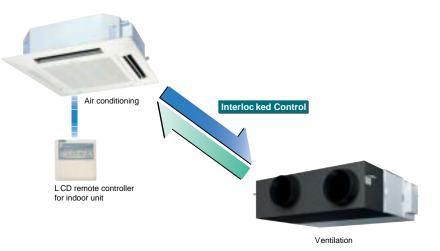
Systems Requiring a Mix of Cooling and Heating Can Be Easily Designed

■ When cooling and heating must be simultaneously performed in the same building, until now a 4-pipe fan coil system had to be

used. The VRV system Heat Recovery Series, however, satisfies these needs with ease of design and installation.

Air Refreshing Treatment (Heat Rec laim Ventilation: HRV)

- The HRV system exchanges heat between the supplied air and exhausted air in order to bring the outside air closer to the indoor temperature and humidity conditions, thus allowing ventilation without increasing the cooling and heating load. And it can save not only running cost but also initial air conditioning system's cost because the smaller ones can be selected
- The HRV system interlocks with the operation of the VRV system, thus eliminating the need for a dedicated HRV remote controller and simplifying installation and wiring operation. The central control unit is common to the VRV, thus helping achieve the total control and management of air conditioning and ventilation.



Lightweight Outdoor Units

■ Lightweight outdoor units featuring minimized vibrations do not require floor reinforcement as do conventional systems.

Short Design Times

■ In conventional systems that use water, the size of the pipes had to be calculated depending on the amount of water used. In the VRV system, however, Daikin's advanced compressor technology eliminates the need for time-consuming piping calculations and greatly reduces design time.

■ Wide Range of Control Systems

- Using regular wired or wireless remote controllers, various control systems can be achieved including double remote control, group control of up to 16 units and interlocked control with HRV.
- By flexibly combining the central controller, on/off controller and schedule timer, a versatile central control system can be easily constructed to control up to 128 indoor units.
- Intelligent touch Controller is a simplified but highly advanced central control air conditioning management system that gives complete control of your air conditioning equipment.
- Our large-scale air conditioning management system consists of the intelligent Manager ECO 21, which allows BMS* -level monitoring and control simply using a personal computer, or the BACnet Gateway / DMS-IF (for L ONWORKS®), which connects air conditioning system to a BMS to perform monitoring and control.
- * BMS: Building Management System
- * LONWORKS is a registered trade mark of Echelon Corporation.
- * Refer to pages 23 and 24 for details about Advanced Controllers.



How do installers benefit from the NEW system?

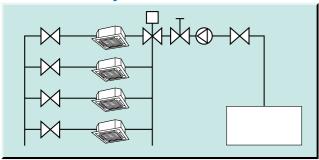
Unique piping and wiring systems and lightweight, compact indoor units make it possible for just a few people to install a VRV system quickly and easily. The Auto Address Setting function and the Auto Check function for piping and wiring errors allow anyone with j ust the ability to install regular direct expansion type air conditioning equipment to perform a highly reliable installation.

Reduced Piping and Cost

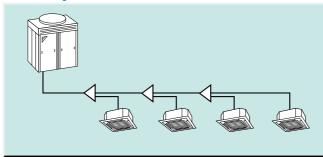
■ Daikin' s advanced REFNET piping system makes installation easy. Only two* main refrigerant lines are required in one system, and the strainers, stop valves, two-way and three-way valves, used in conventional water piping systems are not required. Thanks to the REFNET piping system and electronic expansion

valves, imbalances in refrigerant flow between units is greatly reduced even though small-diameter piping is used. The smalldiameter piping is also easy to handle and requires less piping shaft space. (* Three in the case of heat recovery type.)

Water Chiller System



URV system



REFNET Piping Kits

■The REFNET Joint and REFNET Header (both optional) reduce the amount of work involved in installation and increases the reliability of the system.

REFNET Joint



ATTACHED INSULATORS



REFNET Header

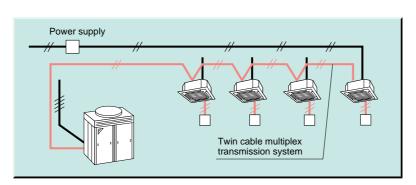


for REFNET Header



Simple Wiring

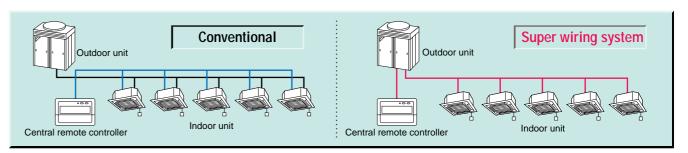
■Two-wire multiplex transmission system makes it possible to connect multiple indoor units to one outdoor unit with one 2-core wire, thus simplifying the wiring operation.



Super Wiring System

■ A Super Wring system is used to enable the shared use of the wiring between indoor and outdoor units and the central control wiring. A high-level central control system can be achieved via a

relatively simple wiring operation. Even when retrofitting with a central control system, all that is required is to connect the central control unit to the outdoor units.



Auto Address Setting Function

■The address of each indoor unit is set automatically at the same time they are connected, thus eliminating the need to manually set each address. Address setting for central control can be performed easily from the remote controller of an indoor unit.

■ Sequential Starting

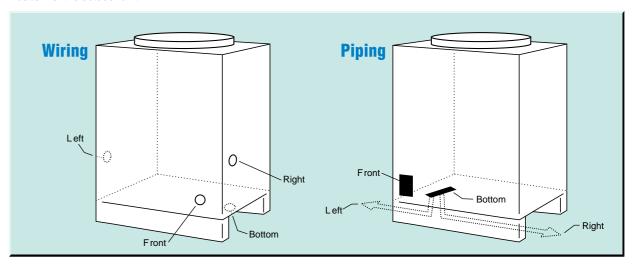
■By employing DII-net, systems on the same power line will be started sequentially. This holds down the starting current, allowing the capacities of breakers to remain small (possible up to 100 HP).

Four-Way Wiring and Piping Connection

■Wring can be fed from the front panel, both left and right side panels or bottom panel of the outdoor unit.

Piping can be fed from 4 directions, front, both left and right or bottom of the outdoor unit.

These features increase installation flexibility, minimizing the space required for installation and simplifying maintenance of the wiring and piping.



Note: Refer to engineering data for details of the exterior design of the outdoor unit and the locations of connection points for piping and wiring.

Check Function for Connection Errors of Wiring and Piping

■ Mistakes in piping or wiring in the system can be checked via lamps on the printed circuit board of the outdoor unit.

■ Self-Diagnosis Function for Efficient Servicing and Maintenanc C

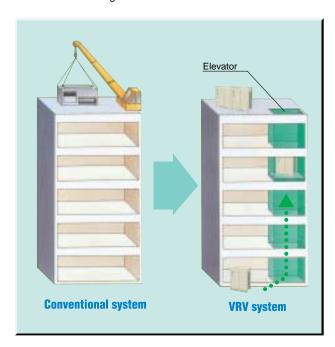
■ The self-diagnosis function detects malfunctions in major locations in the system and displays the type of malfunction and location. This allows servicing and maintenance to be performed more efficiently.

Self diagnostic examples

Ol	peration lamp	Inspection display	Unit No.	Malfunction code	Nature of malfunction
E	Blinking	Blinking	Blinking	A1	Indoor unit : Print circuit board error
E	Blinking	Blinking	Blinking	A9	Indoor unit: Electronic expansion valve drive unit (YIE) error
E	Blinking	Blinking	Blinking	U4	Transmission error : Indoor unit ← → Outdoor BS unit ; Outdoor unit ← → BS unit

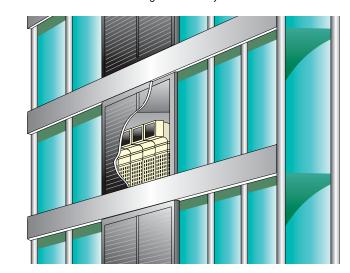
Light weight, Compact Units

■ Indoor units are so lightweight and compact that they can be installed in any ceiling space. Outdoor units do not require special cranes or conveyors to move them. They can even be hauled in a building elevator.



Installation by Floor ■

■ If necessary, installation can be performed by floor. The installers do not have to wait until the entire system is installed in the building to test the system in each section.

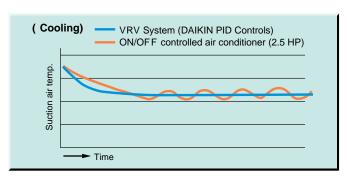


What are the advantages for users?

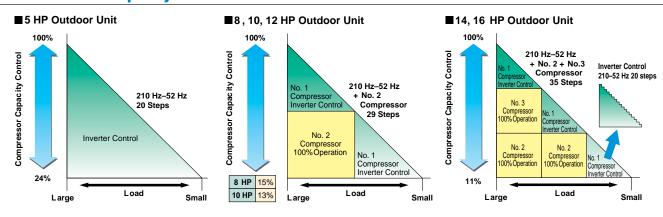
The VRV system is an advanced system that offers convenience and comfort for end users.

■ Precise Room Temperature Control

■ Electronic expansion valves respond to changes in load in indoor units and continually control the flow rate of refrigerant. In this way, the VRV system maintains a nearly constant room temperature without the typical temperature changes that occur with a conventional ON/OFF control system. The extremely refined PID control maintains the room temperature within ±0.5°C of the set temperature.



Inverter-driven capacity control



Automatic Cooling and Heating Switching

■ The difference between the set temperature and actual room temperature is detected and the cooling or heating mode is automatically switched over.

Auto Swing

■ Whether it be a ceiling-mounted cassette (double- flow/multiflow/600 x 600 multi-flow) type, ceiling-mounted cassette corner type, ceiling-suspended type or wall-mounted type, all these indoor units have an Auto Swing mechanism that helps keep the room temperature uniform.

Low Operating Sound Design —

■ All indoor units have a low operating sound design.

LCD Remote Controller

■ The remote controller uses an easy-to-read liquid crystal display for easy operation. A full line of wired and wireless controllers is available for the indoor units of all types.

Auto Restart Function

■ Even if there is an extended power failure, the VRV system will automatically restart operation. A power failure will not cause any settings to be lost, thus eliminating the need for re-programming.



Control systems

Individual Control Systems

Wired remote controller (Optional)



Wred remote controller

- Large liq uid crystal screen displays complete operating status.
- Digital display lets you set temperature in 1°C units.
- Lets you individually program by timer the respective times for operation start and stop within a maximum of 72 hours.
- Equipped with a thermostat sensor in the remote controller that makes possible more comfortable room temperature control.
- Monitors room temperature and preset temperature by microcomputer, and can select cool/heat operation mode

- automatically. (VRV System Heat Recovery series only)
- Enables you to select cool/heat/fan operation mode with the indoor remote controller of your choice without using the cool/heat selector. (VRV Inverter series, Heat Recovery series, PLUS series)
- Constantly monitors malfunctions in the system for 80 items, and is equipped with a " self-diagnosis function" that lets you know by message immediately when a malfunction occurs.
- Lets you carry out various field settings by remote controller.

Wireless remote controller (Optional)



Signal receiving unit

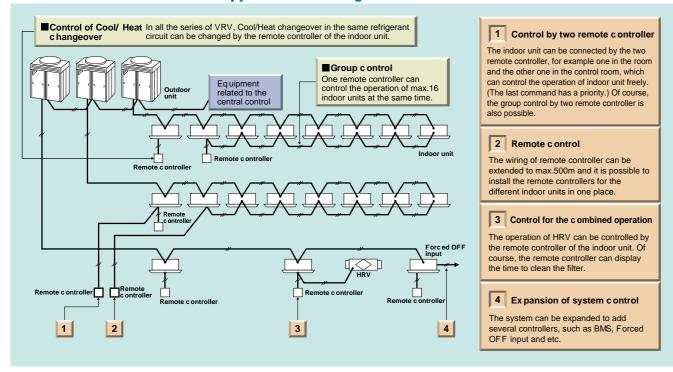
- ■The same operation modes and settings as with wired remote controllers are possible
- A compact light receiving unit to be mounted into a wall or ceiling is included.
- A light receiving unit for a ceiling-mounted cassette (double-flow, multi-flow and 600 x 600 multi-flow) type, ceiling-suspended type and wall-mounted type is mounted into the indoor unit.



Signal receiving unit can be



The wired remote controller supports a wide range of control functions



Set back time clock Optional)



■ Connected to LCD wired remote controller (BRC type), this time clock can set 2 sets of on/off times in an increment of 30 minutes within a day. For each on/off setting a temperature setting is also possible.

Simple remote controller (Optional)



Exposed type

switches (on/off, operation mode, temperature setting and airflow volume), making itself suitable for use in hotel rooms or conference rooms.

■The remote controller has

operation selectors and

centralized its frequently used



The concealed-type remote controller smartly fits into a night table or console panel in a hotel room.

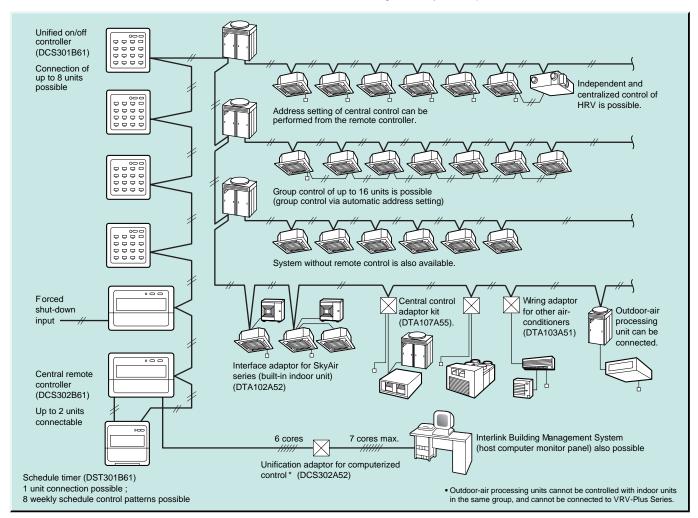
Wide variation of remote controllers for indoor units

	FXCQ	FXFQ	FXZQ	FXKQ	FXSQ	FXMQ	FXHQ	FXAQ	FXĽ(N)Q
Wired remote controller				0					0
Set back time clock *	0					0	0		0
Wreless remote controller (Installed signal receiving unit)									
Wireless remote controller (Separate type signal receiving unit)									
Simple remote c ontroller (Exposed type)									0
Simple remote c ontroller (Concealed type: for Hotel use)									



Centralized Control Systems

- Up to 64 groups of indoor units (128 units) can be centrally controlled.
- Optional controllers for centralized control can be combined freely, and system can be designed in accordance with building scale and purpose.
- System integration with various air-conditioning peripheral equipment such as HRV (Heat Reclaim Ventilation) is easy.
- Wring can be run up to a total length of 2 km, and adapts easily to large-scale system expansion.



Equipment, which can be connected to the system

	Central remote controller	Indoor unit	Outdoor unit	Assoc lated with adaptor PC board
No. of unit	(* 1)	Maximum 128 units	Maximum 10 units	Maximum 10 units
Details	Central remote controller (Max. 2 units) Unified ON/OFF controller (Max. 8 units) Schedule timer (Max. 1 unit) Parallel interface (Max. 4 units)	Indoor unit for VRV Indoor unit of SkyAir (separate adaptor is required) HRV SB unit (* 2) FD(Y)M-FA, FDYB-KA, FD(Y)-K(A), FVY(P)J-A, UAT(Y)-K(A) series (separate adaptor is required) Wring adaptor for other air-conditioner Outdoor-air processing unit	• Outdoor unit for VRV(* 3)	Wring adaptor for electrical appendices (Max. 1 unit) External control adaptor for outdoor unit

Note: (* 1) When eight or more central remote controllers are used, the following conditions must be met. (These conditions do not apply for up to seven units.)

- Central remote controllers + Indoor units + Outdoor units + Other adapters 160 units

- Converted central remote controllers* + Indoor units + Outdoor units + Other adapters 200 units
- Converted by assuming that one central controller unit (excluding the ON/OFF controller) represents 10 units.
- (* 2) When using BS units, indoor units connected to the BS units are not included in the number of units.
- (* 3) A maximum of 10 outdoor units and 5 function units can be connected

Central remote controller (Optional)



DCS302B61

64 groups (zones) of indoor units can be controlled individually same as LCD Remote controller.

- Max.64 groups (128 indoor units controllable)
- Max. 128 groups (128 indoor units) are controllable by using 2 central remote controllers, which can control from 2 different places.
- ■Zone control
- Malfunction code display
- Max. wiring length 1,000 m (Total: 2,000 m)
- Combination with Unified ON/OFF controller, schedule timer and BMS system

Unified ON/ OFF controlleroptional)



DCS301B61

16 groups of indoor units can be operated simultaneously/ individually.

- Max. 16 groups (128 indoor units) controllable
- ■2 remote controllers can be used to control from 2 different places.
- Operating status indication (Normal operation, Alarm)
- Centralized control indication
- Max. wiring length 1,000 m (Total: 2,000 m)
- Compact size casing (Thickness : 16 mm)
- Combination with Central Remote controller, Schedule timer and BMS system

Sc hedule timer (Optional)



Max .128 indoor units can be operated as programed sc hedule.

- Max. 128 indoor units controllable
- ■8 types of weekly schedule
- Max. 48 hours back up power supply
- Max. wiring length 1,000 m (Total : 2,000 m)
- Compact size casing (Thickness: 16 mm)
- Combination with Central Remote controller, Unified ON/OFF controller and BMS system

Interface adaptors (Optional)

The state of the s		
Part name	Model No.	Function
Unification adaptor for computerized control	★ DCS302A52	Interface between the central monitoring board and central control units. Combined with the central remote controller, this adaptor enables the central monitoring board to centralize such functions as the on/off control, operation status monitoring, and normal/malfunction monitoring.(* 1)
Interface adaptor for SkyAir series	★ DTA102A52	
interface adapter for expr in conce	For SkyAir, FD(Y)M-FA, FDYB-KA, FDY-KA, FVY(P)J-A	Adaptors required to connect products other than those of
Central control adaptor kit	★ DTA107A55	the VRV System to the high-speed DIII-NET communication system adopted for the VRV System.
Communication adaptor the	For UAT(Y)-K(A), FD-K	, , ,
Wring adaptor for other air-conditioner	★ DTA103A51	 To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled.
3 1	For air conditioners otherthan mentioned above.	

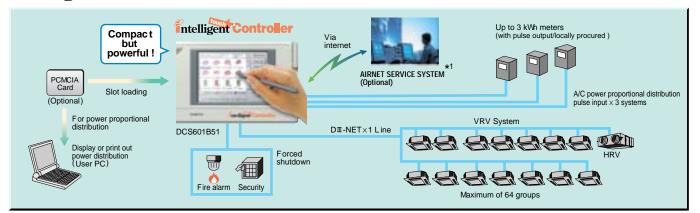
Note: 1. Installation box for ★ adaptor must be procured on site.





Advanced control systems

ntelligent Controller

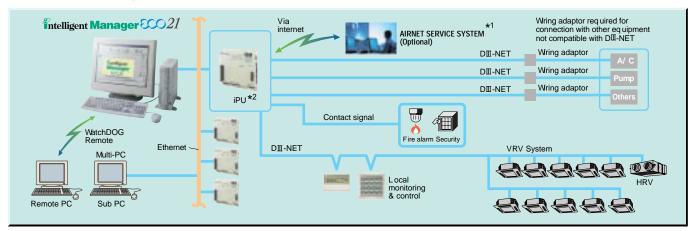




The all-in-one color LCD controller offers high functionality in the smallest of size

- Color LCD touch panel icon display
- Small manageable size
- Simplified engineering
- Multi language (English, French, Italian, German, Spanish and Chinese)
- Yearly schedule
- P.P.D. (Power Proportinal Distribution function)
- AIRNET service (optional failure prediction)
- Auto heat/cool change-over
- Temperature limitation
- History of 300 actions

Intelligent Manager 55021





Centralized control system for easy provision of effective c ontrol and monitoring of VRV system functions

- Floor visual navigation
- Graphical report
- Remote intelligent manager
- Multi-PC access
- Watch dog function for remote error monitoring
- Power limit control
- Sliding temperature
- Automatic heat/cool change-over
- ECO mode
- Temperature limitation

BACnet™ and LONWORKS®







DMS504B51 **SMS-IF BACnet** Gateway (for LONWORKS®)

c ontrol systems ■ Compatibility with BMS enhanced by utilizing the international communication standards,

BACnet™or LONWORKS ®.

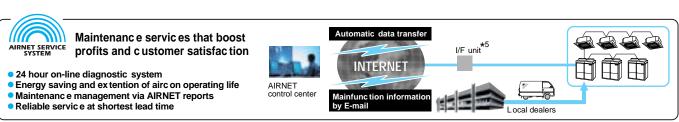
Integrated control systems that recognize the trend of open

INSTITE (for LONWORKS®)

- XIF file for confirming of specifications of the units. (LONWORKS®)
- Programmable Delay Start Up for the setting of delay time for starting communication when power is turned on. First in the industry. (LONWORKS®)
- Connectable up to 10 outdoor units and 64 indoor unit groups. (LONWORKS®)

BACnet[™]

- Conformance class 3 (ASHRAE 135–1995)
- Standard BACnet Device B-ASC (ASHRAE 135–2001)
- ■BACnet OPC server compatibility
- BACnet/IP over Ethernet
- Up to 40 outdoor units and 256 indoor uit groups on one gateway. (optional adapter)



- *1. There are restrictions in applicable areas and release times, therefore please consult us separately for details.
- ★1. There are texticulors in application areas and release unless, therefore please consult us separately for details.
 ★2. Model name varies upon the system size.
 ★3. BACnet™is a data communication protocol specified as an international standard by ASHRAE (American Society of Heating Refriger ation and Air Conditioning Engineers).
 ★4. LONNORS® is a registered trade mark of Echelon Corporation.
 ★5. For an I/F unit, one of the following can be selected: Local Controller, intelligent touch Controller, or intelligent Manager ECO 21.





Indoor units line up

R410A 1/R1/1 System Indoor Units

							Capa	ac ity r	range				
Туре	Model n	name	20 (0.8 HP)	25 (1HP)	32 (1.25HP)	40 (1.6 HP	50 (2HP)	63 (2.5HP)	80 (3.2HP)	100 (4HP)	125 (5HP)	200 (8HP)	250 (10HP)
Ceiling Mounted Cassette (Double-flow)		FXCQ-MVE											
Ceiling Mounted Cassette (Multi-flow) Super Cassette	-1	FXFQ-MVE		0									
600×600 Multi Flow Ceiling Mounted Cassette	Ne	FXZQ-MVE											
Ceiling Mounted Cassette Corner		FXKQ-MVE											
Ceiling Mounted Built-in		FXSQ-MVE											
Ceiling Mounted Duct		FXMQ-MVE											
Ceiling Suspended		FXHQ-MVE											
Wall Mounted		FXAQ-MVE				New	New	New					
Floor Standing		FXLQ-MVE											
Concealed Floor Standing		FXNQ-MVE											

^{*} R410A VRV system indoor units are not compatible with the R22 VRV system.

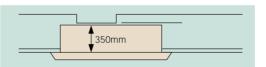
Ceiling mounted cassette (double-flow) type

FXCQ20M/ FXCQ25M/ FXCQ32M FXCQ40M/ FXCQ50M/ FXCQ63M FXCQ80M/ FXCQ125M



Thin, lightweight, and easy to install in narrow ceiling space

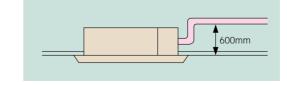
 The thin unit (only 350 mm high) can be installed in a ceiling space as narrow as 355 mm. All models feature a compact design with a depth of only 600 mm.



(When a high-efficiency filter is attached, the unit's height is 400mm.)

•	L ow ope	eratir	ng so	und				(dB(A))
	Class		20	25/32	40/50	63	80	125
					34/29			
	Sound (H/L)	240V	34/29	36/30	37/32	39/34	41/36	46/40

- Designed with higher air flow suitable for high ceiling application up to 3 meter.
- Providing 2 different settings of standard and ceiling soiling prevention, the auto swing mechanism ensures even distribution of airflow and room temperature.
- •Drain-up pump is equipped as standard accessory with 600mm lift.



•Two types of optional high-efficiency filter are available (65% and 95% NBS).



- •A long-life filter (maintenance free up to one year) is equipped as standard accessory.
- Major maintenance work can be performed by removing the panel. A flat-type suction grille and a detachable blade make cleaning easy.





Ceiling mounted c assette (SUPER CASSETTE) (multi-flow) type

FXFQ25M/ FXFQ32M/ FXFQ40M FXFQ50M/ FXFQ63M/ FXFQ80M FXFQ100M/ FXFQ125M



New Super Cassette type is c ompact, quiet and easy to install.

 Regardless of their difference in capacity, all indoor units feature the same panel size and design, in consideration of harmonized interior



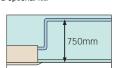
•The FXFQ25M-80M are thin models (246mm) which can be installed in narrow false ceilings of at least 265mm depth.

- •Because of the light weight, suspension is easy.
- •Low operating sound

Low obe	iami	j sou	iiu			(220\	/-240V))(dB(A))
Class	25	32	40	50	63	80	100	125
Operating sound (H/L)	30/27	30/27	31/27	32/27	33/28	36/31	39/33	42/36

Note: Operating sound may increase more than that when using with 3-way discharge or 2-way discharge, or when using together with a optional kit.

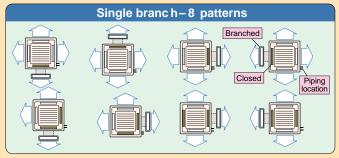
 Provided with high lift drain water lift-up mechanism.
 (Increased lift of drain pipe up to 750mm from the ceiling.)

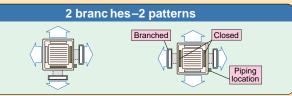


- Installing the fresh air intake is now easier using the new optional kit which requires no special chambers.
- A new long-life filter (maintenance-free period extended from one year to two) is equipped as standard accessory.

• 7 discharge patterns in 2 to 4 directions can be selected to suit the requirements of installation site or the shape of the room.

•The number of installation method using ducts has increased as shown below.





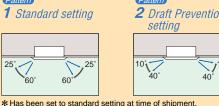
Can also be installed in high ceilings.

		Number of discharge outlets used									
		F)	(FQ25M-8	OM	FXFQ100M-125M						
			3-way air discharge	2-way air discharge	4-way air discharge	3-way air discharge					
	Standard	2.7m	3.0m	3.5m	3.2m	3.6m	4.2m				
Ceiling height	High ceiling ①	3.0m	3.3m	3.8m	3.6m	4.0m	4.2m				
o.g	High ceiling ②	3.5m	3.5m	-	4.2m	4.2m	-				

Note: Set standard 4-way discharge when shipped.

High ceiling types ① and ② will be set for remote control operation

There are 2 patterns in auto swing operation



* Has been set to standard setting at time of shipmen This can be changed using the remote control

600 x 600 multi flow ceiling mounted cassette type

FXZQ20M/ FXZQ25M/ FXZQ32M FXZQ40M/ FXZQ50M



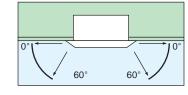
Quiet, stylish unit with a horizontal blow c apability

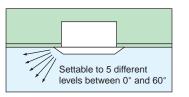
- Exactly matches the European style architectural module (600 mm x 600 mm).
- Low operating sound

			(240\	/,50Hz)	(dB(A))
Class	20	25	32	40	50
Operating sound (H/L)	31/26	33/27	35/28	38/29	45/35

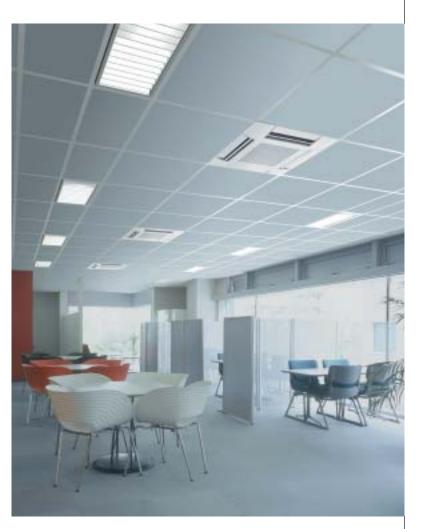
Less draft than FXFQ cassette discharge angle:
25° to 60° □ 0° to 60°
Auto swing

New model





- *Angles can be set on site to prevent drafts (0°-35°) or soiling of the ceiling (25°-60°)
- Switch box is inside the unit, which makes maintainance and installation easy.





Ceiling mounted cassette c orner type

> FXKQ25M/ FXKQ32M FXKQ40M/ FXKQ63M

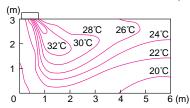
Ceiling mounted built-in type

FXSQ20M/ FXSQ25M/ FXSQ32M FXSQ40M/ FXSQ50M/ FXSQ63M FXSQ80M/ FXSQ100M/ FXSQ125M

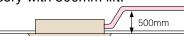


Slim design for flex ible installation

- •Single-flow type allows effective air discharge from corner or from drop-ceiling.
- Providing 3 different settings of standard, draft prevention and ceiling soiling prevention, the auto swing mechanism ensures even distribution of airflow and room temperature.

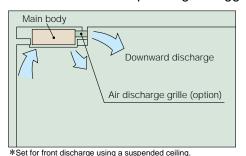


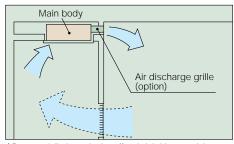
•Drain-up pump is equipped as standard accessory with 500mm lift.





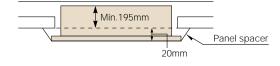
•Front discharge is possible with a air discharge unit (optional), which allows the installation in the drop-ceiling or sagging wall.





*Downward discharge is shut off and air is blown straight out

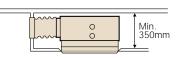
•Slim body needs only 220mm space above the ceiling. If you use panel spacer (optional), the unit can be installed in the min. space of 195mm.



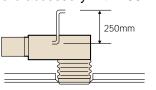
• A long-life filter (maintenance free up to one year) is equipped as standard accessory.

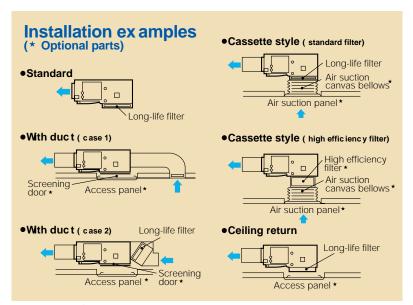
Highly Flex ible for Various Applic ation

- Highly flexible installation is possible with a complete line-up of optional kits to satisfy the various needs, such as the design concept, interior decoration and so on.
- •The unit can be installed, if there is a space of 350mm above ceiling. (when suction panel is used.)



•Drain-up pump is equipped as Standard accessory with 250mm lift.





•High external static pressure allows to use even flexible ducts of various length.

Low operating sound

●Low operating sound (dB(A))													
Class	;	20	25	32	40	50	63	80	100	125			
oporating		37/32											
Sound (H/L)	240V	39/34	39/34	40/34	40/34	43/38	44/37	45/39	45/39	48/37			

- •Two types of optional high-efficiency filter are available (65% and 95% NBS).
- A long-life filter (maintenance free up to one year) is equipped as standard accessory.







Ceiling mounted duct type

FXMQ40M/ FXMQ50M/ FXMQ63M FXMQ80M/ FXMQ100M/ FXMQ125 M



High static pressure allows flex ible duct design.

- •More than 150Pa of external static pressure
- High external static pressure allows extensive duct work for flexible applications.
- •Full line-up of 8 models from 40 to 250 type.
- Optional accessories include a drain-up kit, high-efficiency filters (65% and 95% NBS) and a long-life filter (maintenance free up to 1 year).



FXMQ200M/FXMQ250M

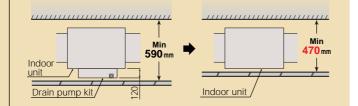


• Simplified Static Pressure Control

External static pressure can be easily adjusted using a change-over switch inside the electrical box to meet the resistance in the duct system.

• Built-in Drain Pump (optional)

Housing the drain pump inside the unit has reduced the space required for installation.



Ceiling suspended type

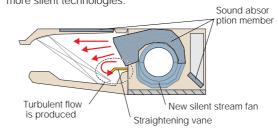
FXHQ32M/ FXHQ63M/ FXHQ100M



Slim body with quieter and wider air flow

 Adoption of newly designed SIL ENT STREAM FAN

Uses the new silent stream fan and many more silent technologies.

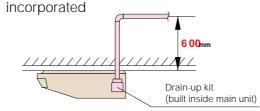


Low operating sound

ow operating	Journa	(220V	-240V)(dB(A))
Class	32	63	100
Operating sound (H/L)	36/31	39/34	45/37

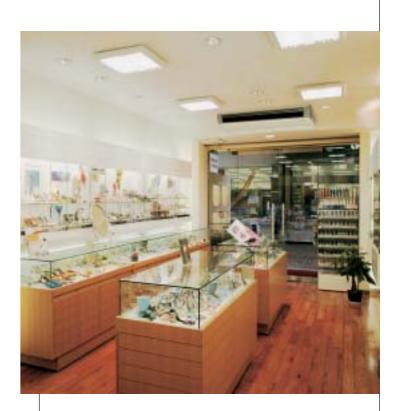
Installation is easy

Drain-up kit (optional) can be easily incorporated



 Wide air discharge openings produce a spreading 100° air flow





Maintenance is easy

- New Non-dew Flap with no implanted
 Bristle-free Flap minimizes
- Bristle-free Flap minimizes contamination and makes cleaning simpler.



- Easy to clean flat design
- Maintenance is easier because everything can be performed from below the unit
- A long-life filter (maintenance free up to one year) is equipped as standard

Все каталоги и инструкции здесь: http://splitoff.ru/tehn-doc.html





Wall mounted type



FXAQ20M/ FXAQ25M/ FXAQ32M FXAQ40M/ FXAQ50M/ FXAQ63M



Sophistic ated design and compact casing harmonized in any interior décor

- Compact and stylish design that does not detract from the decor of the room.
- More compact than compared with previous model. (50, 63 class)



- Drastic 10 kg weight reduction from 24 kg to 14 kg.
- Volume reduced by 22%.
- Space savings of up to 47%.

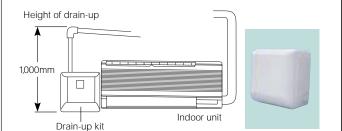
	_ow	opera	ting	sound	
--	-----	-------	------	-------	--

_ o op o	9		(220V-240V)(UB(A))					
Class	20	25	32	40	50	63		
Operating sound (H/L)	35/29	36/29	37/29	39/34	42/36	46/39		

- Drain pan and air filter can be kept clean by mildew-proof polystyrene.
- Washable grille, the front grille can be easily removed for washing.
- Auto-swing ensures efficiency of air distribution. The louver closes automatically when the unit stops.
- •5 steps of discharge angle can be set by remote controller.
- Discharge angle is automatically set at the same angle as the previous operation when restarts. (Initial setting; 10 for cooling and 70° for heating)



- Drain-pump kit is available as optional accessory, which lifts the drain 1,000mm from the bottom of the unit.
- •Flexible installation.
- Drain pipe can be fitted to from either left or right sides.



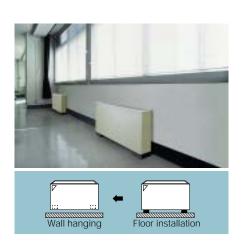
Floor standing type

FXLQ20M/ FXLQ25M/ FXLQ32M FXLQ40M/ FXLQ50M/ FXLQ63M



Perfect unit for perimeter zone air conditioning.

- •Floor standing types can be hung on the wall for easier cleaning. Since running the piping from the back allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is now easier.
- •The adoption of a fiber-less discharge grille featuring an original design to prevent condensation also helps prevent staining and makes cleaning easier.
- •A long-life filter (maintenance free up to one year) is equipped as standard accessory.



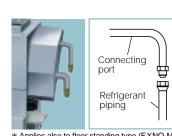
Conc ealed floor standing type

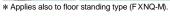
FXNQ20M/ FXNQ25M/ FXNQ32M FXNQ40M/ FXNQ50M/ FXNQ63N



Perfect unit to be concealed in the skirting-wall of perimeter.

- •The unit is perfectly concealed in skirting-wall of perimeter, that enables to create high class interior design.
- The connecting port faces downward, greatly facilitating on-site piping work.
- A long-life filter (maintenance free up to one year) is equipped as standard accessory.









Outdoor units line up

Heat pump type Between 8 (5 HP) and up to 40 (48 HP)

indoor units in a single refrigerant piping circuit can be individually controlled in minimum increments of 2.2 kW(0.8 HP). A lineup of 5-48 HP models precisely supports applications ranging from small to large facilities, including their expansions and renovations, while





Heat rec overy type

The BS unit that switches the system between cooling and heating modes enables the simultaneous operation of cooling and heating within a single refrigerant piping circuit.





Series Line Up

		•																				
Series	rios								Capac ity range													
Series	5 HP	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP	22 HP	24 HP	26 HP	28 HP	30 HP	32 HP	34 HP	36 HP	38 HP	40 HP	42 HP	44 HP	46 HP	48 HP
Heat pump type	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heat rec overy type	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			





What is Heat recovery type?

Modern office buildings are highly airtight and subject to an increasing heat load due to the use of computers, lighting equipment and other office equipment. In these buildings some rooms may require artificial cooling even in winter, depending on the amount of sunshine received and the number of people in the room. In order to meet such requirements the Heat Recovery Series enables the simultaneous operation of cooling and heating by controlling the BS unit that switches cooling and heating. This series also substantially improves energy efficiency by recycling exhaust heat.



- The adoption of an inverter-controlled R-HIDECS circuit has achieved an efficient exhaust heat recovery operation. This circuit enables exhaust gas generated during cooling operation to be utilized for heating operation, reducing power consumption by 15 to 20% compared with that of conventional systems.
- Cooling and heating modes switch over automatically according to preset temperatures. The system also responds flexibly to changes in the room's heat load.

Energy saving by Heat Recovery

	Heat rec overy operation mode	1	Γotal load	l	Standar input f	Standard ratio of power input for outdoor unit			
	Outdoor unit No.1 No.2 No.3 No.4 BS unit 2.5HP 2.5HP 1ndoor unit No.4	Cooling load (eq uipment HP)	Heating load (eq uipment HP)	Unit load (eq uipment HP)	Heat radiation to outdoor air (eq uipment HP)	Heat absorption from outdoor air (eq uipment HP)	Compressor power ratio (eq uipment HP ratio)		
(A)	Heat radiation operation (all cooling operation) Heat radiation Cooling Cooling Cooling Cooling	10	_	10	10		100		
(B)	Heat radiation tendency heat rec overy operation (mainly cooling, part heating operation) Heat radiation Heat radiation	7.5	2.5	10	5	_	48		
(C)	Heat rec overy operation (cooling and heating operation) Cooling and heating operation cooling cooling heating heating	5	5	10	_	_	47		
(D)	Heat absorption tendency heat rec overy operation (mainly heating, part cooling operation) Heat absorption Heat absorption	2.5	7.5	10	_	5	72		
(E)	Heat absorption operation (all heating operation) heating heating heating heating heating heating	_	10	10	_	10	89		

Note: Operation modes (A) and (E) are applicable when the outdoor temperature is 35°C and 0°C respectively; The other modes are applicable under typical outdoor conditions.



Basic combination

Heat Pump Type

HP	Model name	Combination	Number of connectable indoor units
5 HP	RXYQ5M	RXYQ5M	8
8 HP	RXYQ8M	RXYQ8M	13
10 HP	RXYQ10M	RXYQ10M	16
12 HP	RXYQ12M	RXYQ12M	
14 HP	RXYQ14M	RXYQ14M	
16 HP	RXYQ16M	RXYQ16M	20
18 HP	RXYQ18M	RXYQ8M+ RXYQ10M	
20 HP	RXYQ20M	RXYQ10Mx2	
22 HP	RXYQ22M	RXYQ10M+ RXYQ12M	22
24 HP	RXYQ24M	RXYQ10M+ RXYQ14M	
26 HP	RXYQ26M	RXYQ10M+ RXYQ16M	
28 HP	RXYQ28M	RXYQ12M+ RXYQ16M	32
30 HP	RXYQ30M	RXYQ14M+ RXYQ16M	
32 HP	RXYQ32M	RXYQ16Mx2	
34 HP	RXYQ34M	RXYQ10Mx2+RXYQ14M	34
36 HP	RXYQ36M	RXYQ10Mx2+RXYQ16M	36
38 HP	RXYQ38M	RXYQ10M+ RXYQ12M+ RXYQ16M	38
40 HP	RXYQ40M	RXYQ10M+ RXYQ14M+ RXYQ16M	
42 HP	RXYQ42M	RXYQ10M+ RXYQ16Mx2	
44 HP	RXYQ44M	RXYQ12M+ RXYQ16Mx2	40
46 HP	RXYQ46M	RXYQ14M+ RXYQ16Mx2	
48 HP	RXYQ48M	RXYQ16Mx3	

Heat Rec overy Type

HP	Model name	Combination	Number of connectable indoor units
8 HP	REYQ8M	REYQ8M	13
10 HP	REYQ10M	REYQ10M	16
12 HP	REYQ12M	REYQ12M	
14 HP	REYQ14M	REYQ14M	
16 HP	REYQ16M	REYQ16M	20
18 HP	REYQ18M	REYQ8M+ REYQ10M	
20 HP	REYQ20M	REYQ10Mx2	
22 HP	REYQ22M	REYQ10M+ REYQ12M	22
24 HP	REYQ24M	REYQ10M+ REYQ14M	
26 HP	REYQ26M	REYQ10M+ REYQ16M	
28 HP	REYQ28M	REYQ12M+ REYQ16M	32
30 HP	REYQ30M	REYQ14M+ REYQ16M	
32 HP	REYQ32M	REYQ16Mx2	
34 HP	REYQ34M	REYQ10M x 2 + REYQ14M	34
36 HP	REYQ36M	REYQ10M x 2 + REYQ16M	36
38 HP	REYQ38M	REYQ10M+ REYQ12M+ REYQ16M	38
40 HP	REYQ40M	REYQ10M+ REYQ14M+ REYQ16M	
42 HP	REYQ42M	REYQ10M+ REYQ16Mx 2	
44 HP	REYQ44M	REYQ12M+ REYQ16Mx 2	40
46 HP	REYQ46M	REYQ14M+ REYQ16Mx 2	
48 HP	REYQ48M	REYQ16Mx3	





Specifications

INDOOR UNITS

Ceiling Mounted Cassette < Double flow> Type



MOD	EL		FXCQ20MVE	FXCQ25MVE	FXCQ32MVE	FXCQ40MVE	FXCQ50MVE	FXCQ63MVE	FXCQ80MVE	FXCQ125MVE			
Power supply					1 pha	se, 220-240	0V/220V, 50	/60Hz					
Cooling capacity	kcal/	h(* 1)	2,000	2,500	3,150	4,000	5,000	6,300	8,000	12,500			
	Btu/ł	n(* 1)	7,900	9,900	12,500	15,900	19,900	25,000	31,800	49,600			
	kW	(* 1)	2.3	2.9	3.7	4.7	5.8	7.3	9.3	14.5			
	NVV	(* 2)	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0			
Heating capacity	kca	al/h	2,200	2,800	3,400	4,300	5,400	6,900	8,600	13,800			
	Btu/h		8,500	10,900	13,600	17,000	21,500	27,300	34,100	54,600			
	kW		2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0			
Casing				Galvanized steel plate									
Air flow rate (Hi/Lo) m³/min		min	7/5	9/6.5	9/6.5	12/9	12/9	16.5/13	26/21	33/25			
	cfm		247/177	318/230	318/230	424/318	424/318	582/459	918/741	1,165/883			
Sound level (Hi/L o)	-ID(A)	220V	32/27	34/28	34/28	34/29	34/29	37/32	39/34	44/38			
	dB(A)	240V	34/29	36/30	36/30	37/32	37/32	39/34	41/36	46/40			
Dimensions (H×W×D)	m	m	305×775×600	305×775×600	305×775×600	305×990×600	305×990×600	305×1,175×600	305×1,665×600	305×1,665×600			
Machine weight	k	g	26.0	26.0	26.0	31.0	32.0	35.0	47.0	48.0			
Piping connections	L iq uid(F	lare)mm	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 9.5	φ 9.5	φ 9.5			
	Gas(Fla	are)mm	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 15.9	φ 15.9	φ 15.9			
	Drain	piping			VP25 (E	xternal Dia,	32/Internal	Dia, 25)					
Panel(Option)	*1 Mo	dal	BYBC32GJW1	BYBC32GJW1	BYBC32GJWI	BYBC50GJWI	BYBC50GJWI	BYBC63GJW1	BYBC125GJWI	BYBC125GJWI			
	× I IVIO	uei	BYBC32G-WI	BYBC32G-WI	BYBC32G-Wf	BYBC50G-WI	BYBC50G-WI	BYBC63G-WI	BYBC125G-WI	BYBC125G-WI			
	Col	our				Wh	ite		•				
Dimensions	m	m	53×1,030×680	53×1,030×680	53×1,030×680	53×1,245×680	53×1,245×680	53×1,430×680	53×1,920×680	53×1,920×680			
(H×W×D)	weight	kg	8.0	8.0	8.0	8.5	8.5	9.5	12.0	12.0			

Ceiling Mounted Cassette < Multi-flow> Type



MOD	EL		FXFQ25MVE	FXFQ32MVE	FXFQ40MVE	FXFQ50MVE	FXFQ63MV	FXFQ80MVE	FXFQ100MVE	FXFQ125MVE		
Power supply					1 pha	se, 220-240	V/220V, 50	/60Hz	•			
Cooling capacity	kcal/	h(* 1)	2,500	3,150	4,000	5,000	6,300	8,000	10,000	12,500		
	Btu/ł	า(* 1)	9,900	12,500	15,900	19,900	25,000	31,800	39,700	49,600		
	kW	(* 1)	2.9	3.7	4.7	5.8	7.3	9.3	11.6	14.5		
	KVV	(* 2)	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0		
Heating capacity	kcal/h		2,800	3,400	4,300	5,400	6,900	8,600	10,800	13,800		
	Btu/h		10,900	13,600	17,000	21,500	27,300	34,100	42,700	54,600		
	kW		3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0		
Casing			Galvanized steel plate									
Air flow rate (Hi/Lo)	m³/min		13/10	13/10	15/11	16/11	18.5/14	20/15	26/21	30/24		
	cfm		459/353	459/353	530/388	565/388	653/494	706/530	918/741	1,059/847		
Sound level (Hi/Lo) (220V-240V)	dB	(A)	30/27	30/27	31/27	32/27	33/28	36/31	39/33	42/36		
Dimensions (H×W×D)	m	m	246×840×840	246×840×840	246×840×840	246×840×840	246×840×840	246×840×840	288×840×840	288×840×840		
Machine weight	k	g	24.0	24.0	24.0	24.0	25.0	25.0	29.0	29.0		
Piping connections	L iq uid(F	lare)mm	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 9.5	φ 9.5	φ 9.5	φ 9.5		
	Gas(Fla	are)mm	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 15.9	φ 15.9	φ15.9	φ15.9		
	Drain	piping			VP25 (E	xternal Dia,	, 32/Internal	Dia, 25)				
Panel(Option)	Model		BYCP125D-WI	BYCP125D-WI	BYCP125D-WI	BYCP125D-WI	BYCP125D-WI	BYCP125D-WI	BYCP125D-WI	BYCP125D-WI		
	Col	our				Wh	ite					
Dimensions	m	m	45×950×950	45×950×950	45×950×950	45×950×950	45×950×950	45×950×950	45×950×950	45×950×950		
(H×W×D)	weight	kg	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5		

Note: Specifications are based on the following conditions;

•Cooling: (* 1) Indoor temp. of 27CDB, 19.5°CWB, and outdoor temp. of 35.0 °CDB. (* 2) Indoor temp. of 27CDB, 19.0°CWB, and outdoor temp. of 35.0 °CDB.

•Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

•Eq uivalent piping length: 7.5m

•Level difference: 0m

Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See ENGINEERING DATA for detail.)
 Sound level: Anechoic chamber conversion value, measured under JISB8616 conditions. During actual operation, these values are normally bient conditions.





INDOOR UNITS

600×600 Multi Flow Ceiling Mounted Cassette Type



MOD	EL		FXZQ20MVE	FXZQ25MVE	FXZQ32MVE	FXZQ40MVE	FXZQ50MVE		
Power supply				1 phase	, 220-240V/220V,	50/60Hz			
Cooling capacity	kcal/	h(* 1)	2,000	2,500	3,150	4,000	5,000		
	Btu/l	h(* 1)	7,900	9,900	12,500	15,900	19,900		
	kW	(* 1)	2.3	2.9	3.7	4.7	5.8		
	KVV	(* 2)	2.2	2.8	3.6	4.5	5.6		
Heating capacity	kca	al/h	2,200	2,800	3,400	4,300	5,400		
	Btı	u/h	8,500	10,900	13,600	17,000	21,500		
	k۱	W	2.5	3.2	4.0	5.0	6.3		
Casing			Galvanized steel plate						
Air flow rate (Hi/L o) m³/min 50H:		50Hz	9/7	9/7	9.5/7.5	11/8	14/10		
	cfm	50Hz	318/247	318/247	335/265	388/282	494/353		
Sound level (Hi/Lo) (240V)	dB	(A)	31/26	33/27	35/28	38/29	45/35		
Dimensions (H×W×D)	m	m	260(286)×575×575 ():include control box						
Machine weight	k	g			18				
Piping connections	L iq uid(f	Flare)mm	φ6.4	φ6.4	φ6.4	φ6.4	φ 6.4		
	Gas(Fl	are)mm	φ12.7	φ 12.7	φ12.7	φ12.7	φ 12.7		
	Drain	piping		VP20 (Ext	ernal Dia, 26/Intern	al Dia, 20)			
Panel (Option)	Мо	del			BYFQ60BW1				
	Col	lour			White				
Dimensions	m	m	55×700×700	55×700×700	55×700×700	55×700×700	55×700×700		
(H×W×D)	weight	kg	2.7	2.7	2.7	2.7	2.7		

Ceiling Mounted Cassette Corner Type



MOD	EL		FXKQ25MVE	FXKQ32MVE	FXKQ40MVE	FXKQ63MVE				
Power supply				1 phase, 220-240	0V/220V, 50/60Hz					
Cooling capacity	kcal/	h(* 1)	2,500	3,150	4,000	6,300				
	Btu/l	h(* 1)	9,900	12,500	15,900	25,000				
	kW	(* 1)	2.9	3.7	4.7	7.3				
	KVV	(* 2)	2.8	3.6	4.5	7.1				
Heating capacity	kca	al/h	2,800	3,400	4,300	6,900				
	Btu/h		10,900	13,600	17,000	27,300				
	kW		3.2	4.0	5.0	8.0				
Casing			Galvanized steel plate							
Air flow rate (Hi/L o)	(Hi/L o) m³/min cfm		11/9	11/9	13/10	18/15				
			388/318 388/318 459/353		459/353	635/530				
Sound level (Hi/Lo)	4D(V)	220V	38/33	38/33	40/34	42/37				
	dB(A)	240V	40/35	40/35	42/36	44/39				
Dimensions (H×W×D)	m	m	215×1,110×710	215×1,110×710	215×1,110×710	215×1,310×710				
Machine weight	k	g	31.0	31.0	31.0	34.0				
Piping connections	L iq uid(l	Flare)mm	φ 6.4	φ 6.4	φ 6.4	φ 9.5				
	Gas(FI	are)mm	φ 12.7	φ 12.7	φ 12.7	φ 15.9				
	Drain	piping		VP25 (External Dia,	32/Internal Dia, 25)					
Panel (Option)	Мо	del	BYK45FJWI	BYK45FJWI	BYK45FJW1	BYK71FJWI				
	Co	lour		Wh	ite					
Dimensions	m	m	70×1,240×800	70×1,240×800	70×1,240×800	70×1,440×800				
(H×W×D)	imensions mm H×W×D) weight kg		8.5	8.5	8.5	9.5				

- Note: Specifications are based on the following conditions;

 Cooling: (1) Indoor temp. of 27CDB, 19.5°CWB, and outdoor temp. of 35.0 °CDB.

 (* 2) Indoor temp. of 27CDB, 19.0°CWB, and outdoor temp. of 35.0 °CDB.

 *Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

 *Equivalent piping length: 7.5m

 *Level difference: 0m

 *Consetts of indoor unit is only for a forence. A study of the control of the control

 - Level difference: Um
 Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See ENGINEERING DATA for detail.)
 Sound level: (FXCQ-MAnechoic chamber conversion value, measured at a point 1.5 m downward from the unit center.
 (FXKQ-MAnechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

INDOOR UNITS

Ceiling Mounted Built-in Type



MODI	EL		FXSQ20MVE	FXSQ25MVE	FXSQ32MVE	FXSQ40MVE	FXSQ50MVE	FXSQ63MVE	FXSQ80MVE	FXSQ100MVE	FXSQ125MVE	
Power supply					1	phase, 220)-240V/22	0V, 50/60H	Hz			
Cooling capacity	kcal/	h(* 1)	2,000	2,500	3,150	4,000	5,000	6,300	8,000	10,000	12,500	
	Btu/l	n(* 1)	7,900	9,900	12,500	15,900	19,900	25,000	31,800	39,700	49,600	
	kW	(* 1)	2.3	2.9	3.7	4.7	5.8	7.3	9.3	11.6	14.5	
	KVV	(* 2)	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	
Heating capacity	kca	al/h	2,200	2,800	3,400	4,300	5,400	6,900	8,600	10,800	13,800	
	Btu/h		8,500	10,900	13,600	17,000	21,500	27,300	34,100	42,700	54,600	
	k۱	Ν	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	
Casing			Galvanized steel plate									
Air flow rate (Hi/Lo)	o) m³/min		9/6.5	9/6.5	9.5/7	11.5/9	15/11	21/15.5	27/21.5	28/22	38/28	
, ,	cfm		318/230	318/230	335/247	406/318	530/388	741/547	953/759	988/777	1,341/988	
Sound level (Hi/Lo)	dB(A)	220V	37/32	37/32	38/32	38/32	41/36	42/35	43/37	43/37	46/41	
	ub(A)	240V	39/34	39/34	40/34	40/34	43/38	44/37	45/39	45/39	48/43	
Dimensions(H×W×D)	m	m	300×550×800	300×550×800	300×550×800	300×700×800	300×700×800	300×1,000×800	300×1,400×800	300×1,400×800	300×1,400×800	
Machine weight	k	g	30.0	30.0	30.0	30.0	31.0	41.0	51.0	51.0	52.0	
Piping connections	Liquid(f	lare)mm	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 6.4	φ 9.5	φ 9.5	φ 9.5	φ 9.5	
	Gas(Fl	are)mm	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 15.9	φ 15.9	φ 15.9	φ 15.9	
	Drain	piping			VP2	5 (Externa	l Dia, 32/Ir	ternal Dia	, 25)			
Panel(Option)	Мо	del	BYBS32DJW1	BYBS32DJW1	BYBS32DJWI	BYBS45DJW1	BYBS45DJW1	BYBS71DJWI	BYBS125DJWI	BYBS125DJWI	BYBS125DJWI	
	Col	our					White					
Dimensions	m	m	55×650×500	55×650×500	55×650×500	55×800×500	55×800×500	55×1,100×500	55×1,500×500	55×1,500×500	55×1,500×500	
(H×W×D)	weight	kg	3.0	3.0	3.0	3.5	3.5	4.5	6.5	6.5	6.5	

Ceiling Mounted Duct Type





MOD	EL		FXMQ40MVE	FXMQ50MVE	FXMQ63MVE	FXMQ80MVE	FXMQ100MVE	FXMQ125MVE	FXMQ200MVE	FXMQ250MVE
Power supply					1 pha	se, 220-240	V/220V, 50	/60Hz		
Cooling capacity kcal/h(* 1)		h(* 1)	4,000	5,000	6,300	8,000	10,000	12,500	20,000	25,000
	Btu/h(* 1)		15,900	19,900	25,000	31,800	39,700	49,600	79,000	99,000
	kW	(* 1)	4.7	5.8	7.3	9.3	11.6	14.5	23.0	28.8
	KVV	(* 2)	4.5	5.6	7.1	9.0	11.2	14.0	22.4	28.0
Heating capacity	kca	al/h	4,300	5,400	6,900	8,600	10,800	13,800	21,500	27,000
	Btı	ı/h	17,000	21,500	27,300	34,100	42,700	54,600	85,300	107,500
	k۱	Ν	5.0	6.3	8.0	10.0	12.5	16.0	25.0	31.5
Casing						Galvanized	steel plate			
Air flow rate (Hi/Lo)	m³/ı	min	14/11.5	14/11.5	14/11.5	19.5/16	29/23	36/29	58/50	72/62
	cf	m	494/406	494/406	494/406	688/565	1,024/812	1,271/1,024	2,047/1,765	2,542/2,189
Sound level (Hi/Lo)	dB(A)	220V	39/35	39/35	39/35	42/38	43/39	45/42	48/45	48/45
	ub(/t)	240V	41/37	41/37	41/37	44/40	45/41	47/44	49/46	49/46
Dimensions (HXWXD)	m	m	390×720×690	390×720×690	390×720×690	390×720×690	390×1,110×690	390×1,110×690	470×1,380×1,100	470×1,380×1,100
Machine weight	k	g	44.0	44.0	44.0	45.0	63.0	65.0	137.0	137.0
Piping connections	Liquid(Flare)mm		φ 6.4	φ 6.4	φ 9.5	φ 9.5	φ 9.5	φ 9.5	φ 9.5	φ9.5
	Gas(Flare)mm		φ 12.7	φ 12.7	φ 15.9	φ 15.9	φ 15.9	φ 15.9	φ19.1(Brazing)	φ 22.2(Brazing)
	Drain piping			VP25 (External Dia, 32/Internal Dia, 25) PS1B						

- Note: Specifications are based on the following conditions;

 •Cooling: (* 1) Indoor temp. of 27CDB, 19.5°CWB, and outdoor temp. of 35.0 °CDB.

 (* 2) Indoor temp. of 27CDB, 19.0°CWB, and outdoor temp. of 35.0 °CDB.

 •Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

 •Equivalent piping length: 7.5m

 •Level difference: 0m

 •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See ENGINEERING DATA for detail.)

 •Sound level: (FXSQ-M)Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit center.

 (FXMQ-M)Anechoic chamber conversion value, measured under JISB8616 conditions.

 During actual operation, these values are normally somewhat higher as a result of ambient conditions.





INDOOR UNITS

Ceiling Suspended Type



MOD	EL		FXHQ32MVE	FXHQ63MVE	FXHQ100MVE					
Power supply			11	phase, 220-240V/220V, 50/60H	Hz					
Cooling capacity	kcal/l	h(* 1)	3,150	6,300	10,000					
	Btu/h (* 1)		12,500	25,000	39,700					
	kW (*		3.7	7.3	11.6					
	KVV	(* 2)	3.6	7.1	11.2					
Heating capacity	ating capacity kcal/h Btu/h		3,400	6,900	10,800					
			13,600	27,300	42,700					
	k۱	N	4.0	8.0	12.5					
Casing				White						
Air flow rate (Hi/Lo)	m³/min		12/10	17.5/14	25/19.5					
	cf	m	424/353	618/494	883/688					
Sound level (Hi/L o) (220V-240V)					cfr dB(cfr dB((A)	36/31	39/34	45/37
Dimensions(HXWXD)	m	m	195×960×680	195×1,160×680	195×1,400×680					
Machine weight	k	g	24.0	28.0	33.0					
Piping connections	Liq uid(F	lare)mm	φ 6.4	φ 9.5	φ 9.5					
	Gas(Fla	are)mm	φ 12.7	φ 15.9	φ 15.9					
	Drain	piping	g VP20 (External Dia, 26/Internal Dia, 20)							

Wall Mounted Type



MOD	EL		FXAQ20MVE	FXAQ25MVE	FXAQ32MVE	FXAQ40MVE	FXAQ50MVE	FXAQ63MVE				
Power supply				1	phase, 220-240	V/220V, 50/60H	Hz					
Cooling capacity	kcal/h(* 1)		2,000	2,500	3,150	4,000	5,000	6,300				
Btu/h		า(* 1)	7,900	9,900	12,500	15,900	19,900	25,000				
	kW	(* 1)	2.3	2.9	3.7	4.7	5.8	7.3				
	KVV	(* 2)	2.2	2.8	3.6	4.5	5.6	7.1				
Heating capacity	kca	al/h	2,200	2,800	3,400	4,300	5,400	6,900				
	Btı	ı/h	8,500	10,900	13,600	17,000	21,500	27,300				
	k۱	N	2.5	3.2	4.0	5.0	6.3	8.0				
Casing				White								
Air flow rate (Hi/Lo)	m³/ı	min	7.5/4.5	8/5	9/5.5	12/9	15/12	19/14				
	cf	m	265/159	282/177	318/194	424/318	530/424	671/494				
Sound level (Hi/L o) (220V-240V)	dB	(A)	35/29	36/29	37/29	39/34	42/36	46/39				
Dimensions (HXWXD)	m	m	290×795×230	290×795×230	290×795×230	290×1,050×230	290×1,050×230	290×1,050×230				
Machine weight kg		11.0	11.0	11.0	14.0	14.0	14.0					
Piping connections Liquid(Fla		lare)mm	φ6.4	φ6.4	φ6.4	φ6.4	φ6.4	φ9.5				
	Gas(Fla	are)mm	φ12.7	φ12.7	φ12.7	φ12.7	φ12.7	<i>∲</i> 15.9				
Drain piping			VP1	3 (External Dia,	18/Internal Dia	, 14)						

- Note: Specifications are based on the following conditions;

 •Cooling: (* 1) Indoor temp. of 27CDB, 19.5°CWB, and outdoor temp. of 35.0 °CDB.

 (* 2) Indoor temp. of 27CDB, 19.0°CWB, and outdoor temp. of 35.0 °CDB.

 •Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

 •Eq uivalent piping length: 7.5m

 •L evel difference: 0m

 •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See ENGINEERING DATA for detail.)

 •Sound level: Anechoic chamber conversion value, measured under JISB8616 conditions.

 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

INDOOR UNITS

Floor Standing Type/ Conc ealed Floor Standing Type



FXLQ



MOD	EI		FXLQ20MVE	FXLQ25MVE	FXLQ32MVE	FXLQ40MVE	FXLQ50MVE	FXLQ63MVE			
IVIODI	<u>CL</u>		FXNQ20MVE	FXNQ25MVE	FXNQ32MVE	FXNQ40MVE	FXNQ50MVE	FXNQ63MVE			
Power supply			1 phase, 220-240V/220V, 50/60Hz								
Cooling capacity	ling capacity kcal/h(* 1)		2,000	2,500	3,150	4,000	5,000	6,300			
	Btu/h(* 1) kW (* 1) (* 2)		7,900	9,900	12,500	15,900	19,900	25,000			
			2.3	2.9	3.7	4.7	5.8	7.3			
			2.2	2.8	3.6	4.5	5.6	7.1			
Heating capacity	kcal/h		2,200	2,800	3,400	4,300	5,400	6,900			
	Btı	u/h	8,500	10,900	13,600	17,000	21,500	27,300			
	k۱	N	2.5	3.2	4.0	5.0	6.3	8.0			
Casing			FXL Q:Ivory white / FXNQ:Galvanized steel plate								
Air flow rate (Hi/Lo)	m³/i	min	7/6	7/6	8/6	11/8.5	14/11	16/12			
	cf	m	247/212	247/212	282/212	388/300	494/388	565/424			
Sound level (Hi/Lo)	dB(A)	220V	35/32	35/32	35/32	38/33	39/34	40/35			
Souria level (11/20)	ub(A)	240V	37/34	37/34	37/34	40/35	41/36	42/37			
Dimensions (H×W×D)	mm	FXLQ	600×1,000×222	600×1,000×222	600×1,140×222	600×1,140×222	600×1,420×222	600×1,420×222			
Differsions (HXWXD)	111111	FXNQ	610×930×220	610×930×220	610×1,070×220	610×1,070×220	610×1,350×220	610×1,350×220			
Machine weight	kg	FXLQ	25.0	25.0	30.0	30.0	36.0	36.0			
wacriirie weignt	ky	FXNQ	19.0	19.0	23.0	23.0	27.0	27.0			
Piping connections	L iq uid(F	lare)mm	<i>ϕ</i> 6.4	<i>ϕ</i> 6.4	φ 6.4	<i>ϕ</i> 6.4	<i>ϕ</i> 6.4	φ 9.5			
	Gas(Fla	are)mm	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 15.9			
	Drain	piping	ng φ 210.D.								

- Note: Specifications are based on the following conditions;

 •Cooling: (* 1) Indoor temp. of 27CDB, 19.5°CVB, and outdoor temp. of 35.0°CDB.

 (* 2) Indoor temp. of 27CDB, 19.0°CVB, and outdoor temp. of 35.0°CDB.

 •Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CVB.

 •Equivalent piping length: 7.5m

 •Level difference: 0m

 •Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See ENGINEERING DATA for detail.)

 •Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m.

 During actual operation, these values are normally somewhat higher as a result of ambient conditions.





OUTDOOR UNITS

Heat Pump Type

MODE	L		RXYQ5MY1B	RXYQ8MY1B	RXYQ10MY1B	RXYQ12MY1B	RXYQ14MY1B	RXYQ16MY1B
Power supply					3 phase, 380)-415V, 50Hz		
Cooling capacity	kcal/h	(* 1)	12,500	20,000	25,000	30,000	35,500	40,000
	Btu/h ((* 1)	49,500	78,900	98,700	118,000	141,000	157,000
	1.14/	(* 1)	14.5	23.1	28.9	34.6	41.3	45.9
	kW	(* 2)	14.0	22.4	28.0	33.5	40.0	44.5
Heating capacity (* 3)			13,800	21,500	27,000	32,300	38,700	43,000
	Btu/h		54,600	85,400	108,000	128,000	154,000	171,000
kW		1	16.0	25.0	31.5	37.5	45.0	50.0
Capacity control %			24-100	24-100 14-100		14-100	10-100	10-100
Casing color					Ivory white	e (5Y7.5/1)		
Compressor					Hermetically se	ealed scroll type		
	Motor out	out kW	3.2×1	(1.2+4.5)×1	(2.7+4.5)×1	(4.2+4.5)×1	(2.0+4.5+4.5)×1	(3.0+4.5+4.5)×1
Air flow rate	m³/m	in	75	175	180	210	210	210
Dimensions(HXWXD)	mm	1	1,600×635×765	1,600×9	930×765	1,600×1,240×765		
Machine weight	kg		160	230	230	260	300	300
Sound level (380V) (* 4)	dB(A	4)	54	57	58	60	60	60
Refrigerant					R4	10A		
Refrigerant charge	kg		5.6	8.6	9.6	11.4	12.9	14.4
Refrigerant oil					Synthetic	(ether) oil		
Refrigerant oil charge	l		1.2	1.9+1.6	1.9+1.6	1.9+1.6	1.9+1.6+1.6	1.9+1.6+1.6
Piping connections	L iq uid	mm		φ 9.5 (Flare)	φ 9.5 (Flare)	φ12.7 (Flare)	φ12.7 (Flare)	φ12.7 (Flare)
	Gas n	nm	₱ 15.9 (Flare)	<i>ф</i> 19.1*(Brazing)	φ22.2 (Brazing)	φ 28.6 (Brazing)	φ28.6 (Brazing)	φ 28.6 (Brazing)
	Oil m	ım	_	_	_	_	_	_

			RXYQ18MY1B	RXYQ20MY1B	RXYQ22MY1B	RXYQ24MY1B	RXYQ26 MY1B	RXYQ28 MY1B	RXYQ30MY1B	RXYQ32MY1B		
MODEL	Constituent Model			RXYQ10MY1B RXYQ10MY1B	RXYQ10MY1B RXYQ12MY1B	RXYQ10MY1B RXYQ14MY1B						
Power supply			3 phase, 380-415V, 50Hz									
Cooling capacity	kcal/h	(* 1)	45,000	50,000	55,000	60,500	65,000	70,000	75,500	80,000		
	Btu/h	(* 1)	178,000	197,000	217,000	240,000	256,000	275,000	298,000	314,000		
	kW	(* 1)	52.0	57.8	63.5	70.2	74.9	80.5	87.2	91.9		
	KVV	(* 2)	50.4	56.0	61.5	68.0	72.5	78.0	84.5	89.0		
Heating capacity (* 3)	kcal	/h	48,500	54,000	59,300	65,700	70,000	75,300	81,700	86,000		
	Btu/	h	193,000	216,000	236,000	262,000	279,000	299,000	325,000	342,000		
	kW	1	56.5	63.0	69.0	76.5	81.5	87.5	95.0	100.0		
Capacity control	%		7-100	7-100	7-100	6-100	6-100	6-100	5-100	5-100		
Casing color						Ivory white	e (5Y7.5/1)					
Compressor			Hermetically sealed scroll type									
	Motor out	put kW	(1.2+4.5)+(2.7+4.5)	(2.7+4.5)×2	(2.7+4.5)+(4.2+4.5)	(2.7+4.5)+(2.0+4.5+4.5)	(2.7+4.5)+(3.0+4.5+4.5)	(4.2+4.5)+(3.0+4.5+4.5)	(2.0+4.5+4.5)+(3.0+4.5+4.5)	(3.0+4.5+4.5)+(3.0+4.5+4.5)		
Air flow rate	m³/m	nin	175+180	180+180	180+210	180+210	180+210	210+210	210+210	210+210		
Dimensions(HXWXD)	mm	า	(1,600×930×765)+	+(1,600×930×765)	(1,600×93	0×765)+(1,600×1	,240×765)	(1,600×1,24	40×765)+(1,600×	1,240×765)		
Machine weight	kg		230+230	230+230	230+260	230+300	230+300	260+300	300+300	300+300		
Sound level (380V) (* 4)	dB(A	۹)	61	61	62	62	62	63	63	63		
Refrigerant						R41	10A					
Refrigerant charge	kg		8.6+9.6	9.6+9.6	9.6+11.4	9.6+12.9	9.6+14.4	11.4+14.4	12.9+14.4	14.4+14.4		
Refrigerant oil						Synthetic	(ether) oil					
Refrigerant oil charge ℓ			(1.9+1.6)+(1.9+1.6	5)	(1.9	9+1.6)+(1.9+1.6+	(1.9+1.6+1.6)+(1.9+1.6+1.6)				
Piping connections	L iq uid	l mm	₱15.9 (Flare)	\$\phi\$15.9 (Flare)		\$\phi\$15.9 (Flare)	<i>ϕ</i> 19.1 * (Brazing)	<i>ϕ</i> 19.1 * (Brazing)	φ 19.1★(Brazing)	<i>ϕ</i> 19.1 * (Brazing)		
	Gas n	nm	φ28.6 (Brazing)	₱28.6 (Brazing)	φ28.6 (Brazing)	φ34.9 (Brazing)	φ34.9 (Brazing)	φ34.9 (Brazing)	φ34.9 (Brazing)	φ34.9 (Brazing)		
	Oil m	nm								φ 6.4 (Flare)		

Note: Specifications are based on the following conditions;

•Cooling: (* 1) Indoor temp. of 27CDB, 19.5°CWB, and outdoor temp. of 35.0 °CDB.

(* 2) Indoor temp. of 27CDB, 19.0°CWB, and outdoor temp. of 35.0 °CDB.

•Heating: (* 3) Indoor temp. of 20CDB, and outdoor temp. of 7°CDB, 6°CWB.

•(* 1)(* 2)(* 3) Equivalent piping length: Heat pump type 7.5m, level difference 0m.

Heat recovery type 7.5m, level difference 0m.

Sound level: (* 4) Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

 ★Use C1220T-1/2H for over
 ◆19.1

OUTDOOR UNITS

Heat Pump Type

			RXYQ34MY1B	RXYQ36MY1B	RXYQ38MY1B	RXYQ40MY1B	RXYQ42MY1B	RXYQ44MY1B	RXYQ46 MY1B	RXYQ48 MY1B		
MODEL	Constitu		RXYQ10MY1B	RXYQ10MY1B	RXYQ12MY1B	RXYQ14MY1B	RXYQ10MY1B RXYQ16MY1B RXYQ16MY1B	RXYQ16MY1B	RXYQ16MY1B	RXYQ16MY1B		
Power supply			3 phase, 380-415V, 50Hz									
Cooling capacity kcal/h(* 1)		(* 1)	85,500	90,000	95,000	101,000	105,000	110,000	116,000	120,000		
	Btu/h(* 1)	338,000	354,000	374,000	397,000	413,000	432,000	455,000	471,000		
	kW	(* 1)	99.1	104	109	117	121	127	133	138		
	KVV	(* 2)	96.0	101	106	113	117	123	129	134		
Heating capacity (* 3)	kcal/	'n	92,700	97,000	102,000	109,000	113,000	118,000	125,000	129,000		
	Btu/	h	370,000	387,000	407,000	433,000	450,000	470,000	496,000	513,000		
	kW		108	113	119	127	132	138	145	150		
Capacity control	%		4-100	4-100	4-100	4-100	4-100	4-100	3-100	3-100		
Casing color						Ivory white	e (5Y7.5/1)					
Compressor						Hermetically se	aled scroll type					
	Motor outp	out kW	(2.7+4.5)+(2.7+4.5) (2.0+4.5+4.5)	(2.7+4.5)+(2.7+4.5) (3.0+4.5+4.5)	(2.7+4.5)+(4.2+4.5) (3.0+4.5+4.5)	(2.7+4.5)+(2.0+4.5+4.5 (3.0+4.5+4.5)		(4.2+4.5)+ (3.0+4.5+4.5)×2	(2.0+4.5+4.5)+ (3.0+4.5+4.5)×2	(3.0+4.5+4.5)×3		
Air flow rate	m³/m	in	180+180+210	180+180+210	180+210+210	180+210+210	180+210+210	210+210+210	210+210+210	210+210+210		
Dimensions(HXWXD)	mm	1	(1,600×930×765)+ (1,600×1,	(1,600×930×765)+ 240×765))×765)+(1,600×1, 1,600×1,240×765						
Machine weight	kg		230+230+300	230+230+300	230+260+300	230+300+300	230+300+300	260+300+300	300+300+300	300+300+300		
Sound level(380V) (* 4)	dB(A	١)	64	64	64	64	64	65	65	65		
Refrigerant						R4	10A					
Refrigerant charge	kg		9.6+9.6+12.9	9.6+9.6+14.4	9.6+11.4+14.4	9.6+12.9+14.4	9.6+14.4+14.4	11.4+14.4+14.4	12.9+14.4+14.4	14.4+14.4+14.4		
Refrigerant oil						Synthetic	(ether) oil					
Refrigerant oil charge &			(1.9+1.6))+(1.9+1.6)+(1.9+	-1.6+1.6)	(1.9+1.6)+	(1.9+1.6+1.6)+(1.	9+1.6+1.6)	(1.9+1.6+1.6)+(1.9+1	.6+1.6)+(1.9+1.6+1.6)		
Piping connections	Liquid	mm	 \$\psi\$19.1 ★(Brazing)	<i>ф</i> 19.1★(Brazing)	<i>ф</i> 19.1 ★ (Brazing)	φ 19.1★(Brazing)	<i>ф</i> 19.1★(Brazing)	<i>ф</i> 19.1 ★ (Brazing)	 \$\psi\$19.1 ★(Brazing)	<i>ф</i> 19.1 * (Brazing)		
	Gas m	nm	φ34.9 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)		φ41.3 (Brazing)			
	Oil m	m		₱ 6.4 (Flare)				₱6.4 (Flare)				

Heat Rec overy Type

MODE	EL	REYQ8 MY1B	REYQ10MY1B	REYQ12MY1B	REYQ14MY1B	REYQ16MY1B					
Power supply				3 phase, 380-415V, 50Hz							
Cooling capacity	kcal/h(* 1)	20,000	25,000	30,000	35,500	40,000					
	Btu/h (* 1)	78,900	98,700	118,000	141,000	157,000					
	kW (* 1)	23.1	28.9	34.6	41.3	45.9					
	(* 2)	22.4	28.0	33.5	40.0	44.5					
Heating capacity (* 3)	kcal/h	21,500	27,000	32,300	38,700	43,000					
	Btu/h	85,400	108,000	128,000	154,000	171,000					
	kW	25.0	31.5	37.5	45.0	50.0					
Capacity control	%	14-100	14-100	14-100	10-100	10-100					
Casing color				Ivory white(5Y7.5/1)							
Compressor			Hermetically sealed scroll type								
	Motor output kW	(1.2+4.5)×1	(2.7+4.5)×1	(4.2+4.5)×1	(2.0+4.5+4.5)×1	(3.0+4.5+4.5)×1					
Air flow rate	m³/min	175	180	210	210	210					
Dimensions(HXWXD)	mm	1,600×9	930×765		1,600×1,240×765						
Sound level (380V) (* 4)	dB(A)	57	58	60	60	60					
Refrigerant				R410A							
Refrigerant oil				Synthetic (ether) oil							
Refrigerant oil charge	l	1.9+1.6	1.9+1.6	1.9+1.6	1.9+1.6+1.6	1.9+1.6+1.6					
Piping connections	Liq uid mm	φ9.5 (Flare)			φ12.7 (Flare)	φ12.7 (Flare)					
	Suction gas mm		φ 22.2 (Brazing)	φ28.6 (Brazing)							
	Discharge gas mm				φ22.2 (Brazing)						
	Oil mm	_	_	_	_	_					

Note: Specifications are based on the following conditions;

Cooling: (1) Indoor temp. of 27CDB, 19.5°CWB, and outdoor temp. of 35.0 °CDB.

(* 2) Indoor temp. of 27CDB, 19.0°CWB, and outdoor temp. of 35.0 °CDB.

Heating: (3) Indoor temp. of 20CDB, and outdoor temp. of 7°CDB, 6°CWB.

(* 1)(* 2)(* 3) Equivalent piping length: Heat pump type 7.5m, level difference 0m.

Heat recovery type 7.5m, level difference 0m.





OUTDOOR UNITS

Heat Rec overy Type

			_									
			REYQ18MY1B	REYQ20MY1B	REYQ22MY1B	REYQ24MY1B	REYQ26 MY1B	REYQ28 MY1B	REYQ30MY1B	REYQ32MY1B		
MODEL	Constituent Model		REYQ8 MY1B REYQ10MY1B	REYQ10MY1B REYQ10MY1B	REYQ10MY1B REYQ12MY1B	REYQ10MY1B REYQ14MY1B			REYQ14MY1B REYQ16MY1B			
Power supply			3 phase, 380-415V, 50Hz									
Cooling capacity kcal/h(* 1)		(* 1)	45,000	50,000	55,000	60,500	65,000	70,000	75,500	80,000		
	Btu/h (* 1)		178,000	197,000	217,000	240,000	256,000	275,000	298,000	314,000		
	kW (* 1)		52.0	57.8	63.5	70.2	74.9	80.5	87.2	91.9		
	KVV	(* 2)	50.4	56.0	61.5	68.0	72.5	78.0	84.5	89.0		
Heating capacity (* 3)	kcal/	/h	48,500	54,000	59,300	65,700	70,000	75,300	81,700	86,000		
	Btu/h		193,000	216,000	236,000	262,000	279,000	299,000	325,000	342,000		
	kW	'	56.5	63.0	69.0	76.5	81.5	87.5	95.0	100.0		
Capacity control	%		7-100	7-100	7-100	6-100	6-100	6-100	5-100	5-100		
Casing color						lvory white	e(5Y7.5/1)					
Compressor			Hermetically sealed scroll type									
	Motor outp	out kW	(1.2+4.5)+ (2.7+4.5)	(2.7+4.5)×2	(2.7+4.5)+ (4.2+4.5)	(2.7+4.5)+ (2.0+4.5+4.5)	(2.7+4.5)+ (3.0+4.5+4.5)	(4.2+4.5)+ (3.0+4.5+4.5)	(2.0+4.5+4.5)+ (3.0+4.5+4.5)	(3.0+4.5+4.5)×2		
Air flow rate	m³/m	in	175+180	180+180	180+210	180+210	180+210	210+210	210+210	210+210		
Dimensions(HXWXD)	mm	1	(1,600×930×765)-	+(1,600×930×765)	(1,600×93	0×765)+(1,600×1	,240×765)	(1,600×1,24	40×765)+(1,600×	1,240×765)		
Sound level (380V) (* 4)	dB(A	A)	61	61	62	62	62	63	63	63		
Refrigerant			R410A									
Refrigerant oil						Synthetic	(ether) oil					
Refrigerant oil charge	l		(1.9+1.6)+(1.9+1.	6)	(1.9	9+1.6)+(1.9+1.6+	-1.6)	(1.9+1.6+1.6)	+ (1.9+1.6+1.6)		
Piping connections	L iq uid	mm	φ15.9 (Flare)	φ15.9 (Flare)			<i>ϕ</i> 19.1 * (Brazing)	<i>ф</i> 19.1*(Brazing)	<i>ф</i> 19.1*(Brazing)	<i>ф</i> 19.1 ★ (Brazing)		
	Suction g	as mm	φ28.6 (Brazing)	φ28.6 (Brazing)	φ28.6 (Brazing)	φ34.9 (Brazing)	φ34.9 (Brazing)	φ34.9 (Brazing)	φ34.9 (Brazing)	φ34.9 (Brazing)		
	Discharge of	gas mm	φ22.2 (Brazing)	φ28.6 (Brazing)	φ28.6 (Brazing)	φ28.6 (Brazing)	φ28.6 (Brazing)	φ28.6 (Brazing)	φ28.6 (Brazing)	<i>ϕ</i> 28.6 (Brazing)		
	Oil m	ım										

			REYQ34MY1B	REYQ36 MY1B	REYQ38 MY1B	REYQ40MY1B	REYQ42MY1B	REYQ44MY1B	REYQ46 MY1B	REYQ48 MY1B		
MODEL	Constituent Model		REYQ10MY1B	REYQ10MY1B	REYQ10MY1B REYQ12MY1B REYQ16MY1B	REYQ14MY1B	REYQ16 MY1B	REYQ16 MY1B	REYQ16 MY1B	REYQ16 MY1B		
Power supply			3 phase, 380-415V, 50Hz									
Cooling capacity	kcal/h	(* 1)	85,500	90,000	95,000	101,000	105,000	110,000	116,000	120,000		
	Btu/h ((* 1)	338,000	354,000	374,000	397,000	413,000	432,000	455,000	471,000		
	kW	(* 1)	99.1	104	109	117	121	127	133	138		
	KVV	(* 2)	96.0	101	106	113	117	123	129	134		
Heating capacity (* 3)	kcal/	h	92,700	97,000	102,000	109,000	113,000	118,000	125,000	129,000		
	Btu/	h	370,000	387,000	407,000	433,000	450,000	470,000	496,000	513,000		
	kW		108.0	113.0	119.0	127	132	138	145	150		
Capacity control	%		4-100	4-100	4-100	4-100	4-100	4-100	3-100	3-100		
Casing color						Ivory white	e(5Y7.5/1)					
Compressor			Hermetically sealed scroll type									
	Motor outp	out kW	(2.7+4.5)×2+ (2.0+4.5+4.5)	(2.7+4.5)×2+ (3.0+4.5+4.5)	(2.7+4.5)+(4.2+4.5)+ (3.0+4.5+4.5)	(2.7+4.5)+(2.0+4.5+4.5)+ (3.0+4.5+4.5)		(4.2+4.5)+ (3.0+4.5+4.5)×2	(2.0+4.5+4.5)+ (3.0+4.5+4.5)×2	(3.0+4.5+4.5)×3		
Air flow rate	m³/m	in	180+180+210	180+180+210	180+210+210	180+210+210	180+210+210	210+210+210	210+210+210	210+210+210		
Dimensions(HXWXD)	mm	1	(1,600×930×765)+ (1,600×1,	(1,600×930×765)+ 240×765)	(1,600×930×765)+(1,600×1,240×765)+ (1,600×1,240×765)			(1,600×1,240×765)+(1,600×1,240×765)+ (1,600×1,240×765)				
Sound level (380V) (* 4)	dB(A	4)	64	64	64	64	64	65	65	65		
Refrigerant			R410A									
Refrigerant oil						Synthetic	(ether) oil					
Refrigerant oil charge &			(1.9+1.6)+(1.9+1.6)+(1.9	9+ 1.6+ 1.6)	(1.9+1.6)+	(1.9+1.6+1.6)+(1.9+1.6+1.6)	(1.9+1.6+1.6)+(1.9+	1.6+1.6)+(1.9+1.6+1.6		
Piping connections	L iq uid	mm	<i>ϕ</i> 19.1*(Brazing)	<i>ф</i> 19.1*(Brazing)	<i>ф</i> 19.1★(Brazing)	<i>ф</i> 19.1★(Brazing)	<i>ф</i> 19.1★(Brazing)	<i>ф</i> 19.1★(Brazing)	<i>ф</i> 19.1★(Brazing)	<i>ф</i> 19.1 ★ (Brazing)		
	Suction g	as mm	φ34.9 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)	φ41.3 (Brazing)			
	Discharge (gas mm	φ28.6 (Brazing)	₱28.6 (Brazing)	φ34.9 (Brazing)	φ34.9 (Brazing)	φ34.9 (Brazing)	φ34.9 (Brazing)	φ34.9 (Brazing)			
	Oil m	ım	φ6.4 (Flare)			 ∮ 6.4 (Flare)	₱6.4 (Flare)		₱6.4 (Flare)	₱6.4 (Flare)		

Note: Specifications are based on the following conditions;

Cooling: (1) Indoor temp. of 27CDB, 19.5°CWB, and outdoor temp. of 35.0 °CDB.

(* 2) Indoor temp. of 27CDB, 19.0°CWB, and outdoor temp. of 35.0 °CDB.

Heating: (3) Indoor temp. of 20CDB, and outdoor temp. of 7°CDB, 6°CWB.

(* 1)(* 2)(* 3) Eq uivalent piping length: Heat pump type 7.5m, level difference 0m.

Heat recovery type 7.5m, level difference 0m.

•Sound level: (* 4) Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

During actual operation, these values are normally somewhat higher as a result of ambient conditions.

*****Use C1220T-1/2H for over ϕ 19.1

BS UNITS for Heat Recovery



	MODEL	•	BSVQ100MV1	BSVQ160MV1	BSVQ250MV1			
Power supp	oly		V1: 1 phase, 220-240V, 50Hz					
Total capacity	Total capacity of connectable indoor units		100 or less	160 or more but less than 250				
Casing	Casing							
Dimensions (H×W×D)		mm	185×310×280	185×310×280	185×590×435			
	Indoor	L iq uid mm	φ 9.5 (Flare)	∮ 9.5 (Flare)				
D: :	Unit	Gas mm						
Piping connections	0.44	Liq uid mm	φ 9.5 (Flare)	∮ 9.5 (Flare)	∮9.5 (Flare)			
COMMECTIONS	Outdoor Unit	Suction gas mm	∮15.9 (Flare)					
	Offic	Discharge gas mm			φ 19.1 (Flare)			
Machine we	Machine weight		9.0	11.0	21.0			

Option List

INDOOR UNITS

Ceiling mounted cassette type (Double flow type)

	No.	Item	Туре	FXCQ20M FXCQ25M FXCQ32M	FXCQ40M	FXCQ50M	FXCQ63M	FXCQ80M	FXCQ125M
	1	*1 Decoration Panel		BYBC32GJWI	BYBC50GJWI		BYBC63GJW1	BYBC125GJWI	
	'	*1 Decoration Failer		BYBC32G-WI	BYBC50G-WI		BYBC63G-WI	BYBC1:	25G-W1
			★2 High efficiency filter 65%	KAFJ532G36	KAFJ5	32G56	KAFJ532G80	KAFJ5	32G160
	•	Filter related	★2 High efficiency filter 90%	KAFJ533G36	KAFJ5	33G56	KAFJ533G80	KAFJ5	33G160
	2 F		Filter chamber bottom suction	KDDFJ53G36	KDDF	153G56	KDDFJ53G80	KDDFJ	53G160
			Long life replacement filter	KAFJ531G36	KAFJ5	31G56	KAFJ531G80	KAFJ5	31G160

Note: *1 BYBC-GJM: Without origin, BYBC-G-Wi: With origin
*2 Filter chamber is req uired if installing high efficiency filter.

Ceiling mounted super c assette type (Multi flow type)

No.	Item		Туре	FXFQ25M	FXFQ32M	FXFQ40M	FXFQ50M	FXFQ63N	FXFQ80M	FXFQ100MFXFQ125M
1	Decoration Panel			BYCP125D-WI						
2	Sealing Member of air discharge outlet						KDBH5	5D160W		
3	Panel spacer						KDBJ5	5K160W		
		High efficiency filter unit 65%				KAFP	556D80			KAF P556D160
		High efficience	y filter unit 90%			KAFP	557D80			KAF P557D160
		Replacement hig	Replacement high efficiency filter 65%			KAFJ	552K80			KAFJ552K160
4	Filter related	Replacement high efficiency filter 90%		KAFJ553K80				KAFJ553K160		
4	Filler related	Filter chambe	r		KDDF P55D160					
		Long life replaceme	nt filter Non-woven type	KAFJ551C160						
		Ultra long-life	filter	KAF P55D160						
		Replacement	ultra long-life filter				KAFJ5	5K160H		
		Chambar tuna	Without T shape and fan				KDDP:	55D160		
5	Fresh air intake kit	Chamber type With T shape without fan		KDDP55D160K						
		Direct installation type		KDDJ55X160						
6	Branch duct chamber		KDP55D80 KDP55D160			KDP55D160				
7	Chamber connection kit		KKSJ55K160							
8	Insulation kit for high h	umidity				KDT-	55D80		·	KDT-55D160

600 x 600 multi flow ceiling mounted cassette type

No.	Item	Туре	FXZQ20M	FXZQ25M	FXZQ32M	FXZQ40M	FXZQ50M		
1	1 Decoration panel			BYFQ60BWI					
2	2 Sealing member of air discharge outlet			KDBHQ44B60					
3	Panel spacer				KDBQ44B60				
4	Replacement long-life filter				KAFQ441B60				
5	Fresh air intake kit	Direct installation type	De KDDQ44X60						

Ceiling mounted cassette corner type

	_			
No.	Item	Туре	FXKQ25M,FXKQ32M,FXKQ40M	FXKQ63M
1	Panel related	Decoration Panel	BYK45FJWI	BYK71FJWI
'	Farier related	Panel Spacer	KPBJ52F56W	KPBJ52F80W
		Long life replacement filter	KAFJ521F56	KAFJ521F80
	Air inlet and air	Air discharge grill	K-HV7AW	K-HV9AW
2	discharge outlet	Air discharge blind panel	KDBJ52F56W	KDBJ52F80W
n•//snlit	toff ru/tehn_doc h	tml	KFDJ52F56	KFD.I52F80





INDOOR UNITS

Ceiling mounted built-in type

	3 3 3 3 3 3									
No.	Item		Туре	FXSQ20M FXSQ25M FXSQ32M	FXSQ40M FXSQ50M	FXSQ63M	FXSQ80M FXSQ100M	FXSQ125M		
1	Panel related	Decoration	Panel	BYBS32DJW1	BYBS45DJWI	BYBS71DJWI	BYBS12	25DJWI		
	Farier related	Access par	nel	KTBJ25K36W	KTBJ25K56W	KTBJ25K80W	KTBJ25	K160W		
2	★1 Auxiliary	Model	Model 240V/220V		KEA25K50VE	KEA25K63VE	KEA25K100VE	KEA25K125VE		
	electric heater	Capacity	kW	0.75	1.2	1.4	2.1	2.8		
		★2 High eff	*2 High efficiency filter 65%		KAFJ252L56	KAFJ252L80	KAFJ2	52L 160		
	*2		iciency filter 90%	KAFJ253L36	KAFJ253L56	KAFJ253L80	KAFJ2	53L 160		
3	Filter related	Long life re	eplacement filter	KAFJ251K36	KAFJ251K56	KAFJ251K80	KAFJ2	51K160		
		Filter	For bottom suction	KAJ25L36D	KAJ25L56D	KAJ25L 80D	KAJ25L 160D			
		chamber	For rear suction	KAJ25L 36B	KAJ25L56B	KAJ25L80B	KAJ25	L160B		
		Air suction	canvas	KSA-25K36	KSA-25K56	KSA-25K80	KSA-2	5K160		
4	Air inlet and air discharge outlet	Screening	door	KBBJ25K36	KBBJ25K56	KBBJ25K80	KBBJ2	5K160		
4	related	Air suction	flange	KDJ2507K36	KDJ2507K56	KDJ2507K80	KDJ2507K160			
		Air discharge adaptor		KDAJ25K36	KDAJ25K56	KDAJ25K71	KDAJ2	5K140		
5	Natural evaporating	pan type humi	difier *1	KNM25K32V1	KNM25K50V1	KNM25K63V1	KNM25I	<125V1		

Note: *1 One adaptor for wiring (KRP1B61) per indoor unit is required if installing an electric heater or a natural evaporating pan type humidifier.

An electric heater cannot be used for VRV system cooling only.

*2 If installing a high filter in the ceiling mounted built-in type, an assembly chamber for either bottom or rear suction is required.

Ceiling mounted duct type

No.	No. Item Type		FXMQ40M FXMQ50M	FXMQ63N	FXMQ80M	FXMQ100M	FXMQ125M	FXMQ200M	FXMQ250M
1 Drain pump kit			KDU-30L125VE					KDU30I	_250VE
2	65%		KAFJ302L7	1	K	AFJ302L14	10	KAFJ3	72L 280
2	High efficiency filter	90%	KAFJ303L7	K	AFJ303L14	10	KAFJ3	73L 280	
3	Filter chamber		KDDJ30L71		KDDJ30L 140		0	KDJ370	05L 280
4	Long life replacement filter		KAFJ301L7	1	K	AFJ301L14	10	KAFJ3	71L 280

Ceiling suspended type

	5			
No.	Type Item	FXHQ32M	FXHQ63M	FXHQ100M
1	Drain pump kit	KDU50M60VE	KDU50N	V125VE
2	Replacement long-life filter (Resin net)	KAFJ501D56	KAFJ501D80	KAFJ501D112
3	L-type piping kit (for upward direction)	KHFP5M35	KHFF	P5M63

Wall mounted type

No.	Item	FXAQ20M	FXAQ25M	FXAQ32M	FXAQ40M	FXAQ50M	FXAQ63M
1	Drain pump kit			K-KDU	572BVE		

Floor standing type

No.	Item Type	FXLQ20M	FXLQ25M	FXLQ32M	FXLQ40M	FXLQ50M	FXLQ63M
1	Long life replacement filter	KAF J3	61K28	KAFJ3	61K45	KAFJ3	61K71

Conc ealed floor standing type

	0 7.						
No.	Type Item	FXNQ20M	FXNQ25M	FXNQ32M	FXNQ40M	FXNQ50M	FXNQ63M
1	Long life replacement filter	KAFJ3	61K28	KAFJ3	61K45	KAFJ	861K71

OUTDOOR UNITS

Heat Pump Type

No.	Name of Options	RXYQ5MY1B	RXYQ8 MY1B RXYQ10MY1B	RXYQ12MY1B RXYQ14MY1B RXYQ16 MY1B		
1	Cool/Heat Selector					
1-1	Fixing box					
2	REFNET header	KHRP26M22H KHRP26M33H	` ,	KHRP26M22H (Max. 4branch),KHRP26M33H (Max. 8branch) KHRP26M72H (Max. 8branch)		
3	REFNET joint	KHRP26M22T	KHRP26M22T, KHRP26M33T	KHRP26M22T, KHRP26M33T, KHRP26M72T		
4	Kit of air discharge duct	KPF26B160	KPF26B280	KPF 26B450		
5	Central drain pan kit	KWC26B160	KWC26B280	KWC26B450		
6	Refrigerant leak detector kit	KFL D26A,KHL D26A				

No.	Name	of Options	RXYQ18 MY1B RXYQ20MY1B	RXYQ22MY1B RXYQ24MY1B RXYQ26 MY1B	RXYQ28MY1B	RXYQ30MY1B RXYQ32MY1B	RXYQ34MY1B RXYQ36 MY1B	RXYQ38MY1B	RXYQ40MY1B RXYQ42MY1B	RXYQ44MY1B RXYQ46MY1B RXYQ48MY1B
1	Cool/Heat S	Selector				KRC1	9-26A			
1-1	Fixing box					KJB [,]	111A			
		REFNET header	KHRP2	6M22H (Max. 4bra	nch), KHRP26M33	H (Max. 8branch),	KHRP26M72H (Ma	x. 8branch), KHRP	26M73H (Max. 8br	anch)
2	Distributive REFNET joint			KHRP26M22T, KHRP26M33T, KHRP26M72T, KHRP26M73T						
2	piping	Outdoor unit multi connection piping kit	BHFP22M90 BHFP22M135							
3	Pipe size re	educer	KHRP	26M73TP, KHRP2	6M73HP, BHF P22	M90P	KHRP26M73TP, KHRP26M73HP, BHF P22M135P			M135P
4	Kit of air dis	scharge duct	KPF26B280×2	KPF26B280×2		KPF26B450×2	KPF26B280×2 KPF26B450	KPF26B280 KPF26B450×2	KPF26B280 KPF26B450×2	KPF26B450×3
5	Central dra	in pan kit	KWC26B280 ×2	KWC26B280 KWC26B450	KWC26B450 ×2	KWC26B450 ×2	KWC26B280 ×2 KWC26B450	KWC26B280 KWC26B450 ×2	KWC26B280 KWC26B450 ×2	KWC26B450 ×3
6	Refrigerant	Refrigerant leak detector kit			KFL D26A	, KHL D26A				

Heat Rec overy Type

No.	Name of Options	REYQ8 MY1B REYQ10MY1B	REYQ12MY1B REYQ14MY1B REYQ16MY1B		
1	REFNET header	KHRP25M33H (Max. 8branch)	KHRP25M33H (Max. 8branch), KHRP25M72H (Max. 8branch)		
2	REFNET joint	KHRP25M22T, KHRP25M33T	KHRP25M22T, KHRP25M33T, KHRP25M72T		
3	Pipe size reducer		KHRP25M72TP, KHRP25M72HP		
4	Kit of air discharge duct	KPF26B280	KPF26B450		
5	Central drain pan kit	KWC26B280	KWC26B450		
6	Refrigerant leak detector kit	KFL D26A, KHL D26A			

No.	Name of Options	REYQ18 MY1B REYQ20MY1B	REYQ22MY1B REYQ24MY1B REYQ26MY1B	REYQ28MY1B	REYQ30MY1B REYQ32MY1B	REYQ34MY1B REYQ36 MY1B	REYQ38 MY1B	REYQ40MY1B REYQ42MY1B	REYQ44MY1B REYQ46 MY1B REYQ48 MY1B	
1	REFNET header		KHRP25M	133H (Max. 8branc)	n), KHRP25M72H ((Max. 8branch), KH	IRP25M73H (Max.	8branch)		
2	REFNET joint			KHRP25M22	T, KHRP25M33T,	KHRP25M72T, KH	IRP25M73T			
3	Outdoor unit multi connection piping kit		BHFP:	26M90		BHF P26M135				
4	Pipe size reducer	KHRP25M72TP, KH	RP25M72HP, KHRP2	6M73TP, KHRP26M73	BHP, BHF P26M90P	KHRP25M72TP, KHRP25M72HP, KHRP26M73TP, KHRP26M73HP, BHFP26M135P				
5	Kit of air discharge duct	KPF26B280×2	KPF26B280 KPF26B450	KPF26B450×2	KPF26B450×2	KPF26B280×2 KPF26B450	KPF26B280 KPF26B450×2	KPF26B280 KPF26B450×2	KPF26B450×3	
6	Central drain pan kit	KWC26B280 ×2	KWC26B280 KWC26B450	KWC26B450 ×2	KWC26B450 ×2	KWC26B280 ×2 KWC26B450	KWC26B280 KWC26B450 ×2	KWC26B280 KWC26B450 ×2	KWC26B450 ×3	
7	Refrigerant leak detector kit		KFL D26A, KHL D26A							

For BS Units

No.	Name of Options	BSVQ100MV1	BSVQ100MV1 BSVQ16 0MV1 BSVQ250MV1							
1	Cool/Heat selector		KRC19-26A							
2	Fixing box	KJB111A								





CONTROL SYSTEM

Operation control system optional accessories

No.	Item	Type			FXFQ-M	FXZQ-M	FXKQ-M	FXSQ-M	FXMQ-M	FXHQ-M	FXAQ-M	FXLQ-M FXNQ-M
		Wireless	H/P	BRC7C62	BRC7E61W	BRC7E530W	BRC4C61	BRC4C62	BRC4C62	BRC7E63W	BRC7E618	BRC4C62
1	Remote controller	vwreiess	C/O	BRC7C67	BRC7E65	BRC7E531W	BRC4C63	BRC4C64	BRC4C64	BRC7E66	BRC7E619	BRC4C64
		Wired			BRC	1A61		BRC	1A62	BRC	1A61	BRC1A62
2	Set back time clock							BRC15A61				
3	Simplified remote controller				-	-		BRC	2A51	-	-	BRC2A51
4	Remote controller for hotel use			_				BRC	3A61	_		BRC3A61
5	Adaptor for wiring			★KRP1B61	★KRP1B59	KRP1B2	KRP1B61			KRP1B3	_	KRP1B61
6-1	Wiring adaptor for electrical appendices (1)			★KRP2A61	★KRP2A62	KRP2A62	KRP2A61			★KRP2A62	★KRP2A61	KRP2A61
6-2	Wring adaptor for electrical appendices (2)			★KRP4A51	★KRP4A53	KRP4A53	KRP4A51 *F			★KRP4A52	*KRP4A51	KRP4A51
7	Remote sensor			KRCS01-1	_	KRCS01-1	1 KRCS01-1					
8	Installation box for adaptor PCB☆			Note 2,3 KRP1B96	Note 2,3 KRP1D98	KRP1B101	-	Note 4 KRP4A91	_	Note 3 KRP1C93	Note 2,3 KRP4A93	_
9	Central remote controller			DCS302B61								
9-1	Electrical box with earth terminal (3 l	olocks)		KJB311A								
10	Unified on/off controller			DC\$301B61								
10-1	Electrical box with earth terminal (2 I	olocks)		KJB212A								
10-2	Noise filter (for electromagnetic interface use only)			KEK26-1								
11	Schedule timer			DST301B61								
12	External control adaptor for outdoor (Must be installed on indoor units)	unit		*DTA104A61	*DTA1	104A62		DTA104A61		*DTA104A62	*DTA104A61	DTA104A61

Note: 1. Installation box ☆ is necessary for each adaptor marked ★.

2. Up to 2 adaptors can be fixed for each installation box.

Various PC boards

No.	Part name	Model No.	Function
1	Adaptor for wiring	KRP1B61 KRP1B59 KRP1B3	•PC board when equipped with auxiliary electric heater in the indoor unit.
2	DIII-NET Expander adaptor	DTA109A51	Up to 1024 units can be centrally controlled in 64 different groups. Wiring restrictions (max. length : 1000m, total wiring length : 2000m, max. number of branches : 16) apply to each adaptor.

System configuration

0,000	iii comigarati	011						
No.	Part na	ime	Model No.	Function				
1	Central remote controller		DCS302B61	 Up to 64 groups of indoor units(128 units) can be connected, and ON/OFF, temperature setting and monitoring can be accomplished individually or simultaneously. Connectable up to 2 controllers in one system. 				
2	Unified ON/OFF controller		DCS301B61	•Up to 16 groups of indoor units(128 units) can be turned, ON/OFF individually or simultaneously, and operation and malfunction can be displayed. Can be used in combination with up to 8 controllers.				
3	Schedule timer		DST301B61	Programmed time weekly schedule can be controlled by unified control for up to 64 groups of indoor units (128 units). Can turn units ON/OFF twice per day.				
4	Unification adaptor for computerize	ed control	*DCS302A52	•Interface between the central monitoring board and central control units.				
5	Interface adaptor for SkyAir-series	For SkyAir, FD(Y)M-FA, FDY-KA FDYB-KA, FDY-KA, FVY(P)J-A	* DTA102A52	Adaptors required to connect products other than those of the VRV System to the high-speed DIII-NET communication system adopted for the VRV System.				
6	Central control adaptor kit	For UAT(Y)-K(A),FD-K	★ DTA107A55	* To use any of the above optional controllers, an appropriate adaptor must be installed on the				
7	Wiring adaptor for other air-condition	oner	* DTA103A51	product unit to be controlled.				
8	D III -NET Expander Adaptor		DTA109A51	*Up to 1024 units can be centrally controlled in 64 different groups. *Wring restrictions (max. lengh: 1,000m, total wring lengh: 2,000m, max. number of branches: 16) apply to each adaptor.				
9	Mounting plate		KRP4A92	•Fixing plate for DTA109A51				

Note: Installation box for ★ adaptor must be procured on site.

CONTROL SYSTEM

Building management system

No.		Part nan	ne		Model No.	Function Function					
						Air-Conditioning management system that can be controlled by a compact all-in-one unit.					
1	intellige	ent Touch Controller		Without PPD	DCS601B51	PPD: Power Proportional Distribution function					
		Wth PPD		Wth PPD	DCS601B51 DCS002A51	New Functions: Auto cool/heat change-over •Temperature limitation •Multilingual (English, French, German, Spanish, Italian, or Chinese)					
1-1	Electric	al box with earth terminal (4b	olocks)		KJB411A	•Wall embedded switch box.					
				128 units	DAM602A52						
				192 units	DAM602A53						
2	intelline	nt Manager ECO 21	Number of units to be	256 units	DAM602A51	Air conditioner management system (featuring minimized engineering) that can be controlled by personal computers.					
_	Z intelligent Manager 200 21	in wanager 200 21	connected	512 units	DAM602A51×2						
				768 units	DAM602A51×3						
				1024 units	DAM602A51×4						
3	BACnet Gateway				DMS502A51	 Interface unit to allow communications between VRV and BMS. Operation and monitoring of air- conditioning systems through BACnet communication. 					
4	nuni line	L ONWORKS® Network cor DMS-IF	mpatible LON	Gateway	DMS504B51	 Interface unit to allow communications between VRV and BMS. Operation and monitoring of air- conditioning systems through LONWORKS® communication. 					
5	Communi cation line	Optional DIII board			DAM411A1	Expansion kit, installed on the BACnet Gateway (DMS502A51), to provide 3 more DIII-NET communication ports. Not usable independently.					
6]	Optional Di board			DAM412A1	Expansion kit, installed on the BACnet Gateway (DMS502A51), to provide 16 more wattmeter pulse input points. Not usable independently.					
7		Parallel interface Basic unit			DPF201A51	•Enables ON/OFF command, operation and display of malfunction; can be used in combination with up to 4 units.					
8	la I	Temperature measurement units			DPF201A52	•Enables temperature measurement output for 4 groups; 0-5VDC.					
9	gis go	Temperature setting units			DPF201A53	•Enables temperature setting input for 16 groups; 0-5VDC.					
10	analo	Unification adaptor for computerized control			DCS302A52	•Interface between the central monitoring board and central control units.					
11-1	Contact/analog signal	Wring adaptor for electrical appendices (1)			KRP2A61 KRP2A62	•Simultaneously controls air-conditioning control computer and up to 64 groups of indoor units.					
11-2	Š	Wring adaptor for electrical appendices (2)		KRP4A51-53	•To control the group of indoor units collectively, which are connected by the transmission wiring of remote controller.						
12		External control adaptor for outdoor unit			DTA104A61 DTA104A62	Cooling/Heating mode change over. Demand control and Low noise control are available between the plural outdoor units.					

Only one installation box can be installed for each indoor unit.
 Installation box ☆ is necessary for second adaptor.







Heat Rec laim Ventilation

The HRV Creates a High-Quality Environment by Interlocking with the Air Conditioner

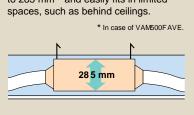
Daikin' s HRV (Heat Reclaim Ventilation) recovers heat energy lost through ventilation and holds down room temperature changes caused by ventilation, thereby maintaining a comfortable and clean environment. This also curbs the load on the air conditioning system and conserves energy. In addition, the HRV is interlocked to Daikin's VRV system, SkyAir and other air conditioning systems and automatically switches over ventilation mode, further increasing the effects of energy conservation. HRV operation has been centralized on the air conditioner remote controller allowing total control over air conditioning and ventilation with a simple configuration.



New VAM-FA Series

First-class Compactness in the Industry

The use of the originally developed High Efficiency Paper (HEP) element and optimized design of the fan and airflow passages, has enabled the first-class compactness in the industry while maintaining some 28% reduction of air conditioning load as before. The height of the main unit has been reduced by up to 285 mm* and easily fits in limited spaces, such as behind ceilings.



First-Class Energy Conservation in the Industry

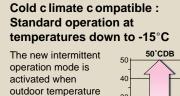
Air Conditioning Load Reduced by Approx imately 28 %

1. Approximately 20% by operating in total heat exchange mode (in comparison with normal ventilation fans)

2. Another approximately 6% gained by auto-ventilation mode changeover switching

3. Yet another approximately 2% by pre-cool, pre-heat control

Operation range of outdoor temperatures



freezing or

regions.

condensation in the unit. Standard

models can now be

used in cold climate

goes down to -10°C or below, preventing -15°CDB

HRV specifications

HRV(Heat Reclaim Ventilation)

	Мо	odels		VAM150FAVE	VAM250FAVE	VAM350FAVE	VAM500FAVE	VAM650FAVE	VAM800FAVE	VAM1000FAVE	VAM1500FAVE	VAM2000FAV			
Pow	er Supply						VE: 1 phase,	 220-240V/220	V, 50Hz/60Hz						
Tem	p. Exchan	ae	Ultra-High	74/74	72/72	75/75	74/74	74/74	74/74	75/75	75/75	75/75			
Effici	ency (%)	90	High	74/74	72/72	75/75	74/74	74/74	74/74	75/75	75/75	75/75			
[50H	Hz/60Hz]		Low	79/80	77/77	80/81	77/78.5	77/78	76/76	76.5/78	78/78	78/78			
			Ultra-High	64/64	64/64	65/65	62/62	63/63	65/65	66/66	66/66	66/66			
⊏ n#h	ala.	For Heating	High	64/64	64/64	65/65	62/62	63/63	65/65	66/66	66/66	66/66			
Enth Exch	aipy iange		Low	69/71	68/69	70/71	67/68.5	66/68	67/68	68/71	68/68	70/70			
	iency (%)		Ultra-High	58/58	58/58	61/61	58/58	58/58	60/60	61/61	61/61	61/61			
[DUI	Hz/60Hz]	For Cooling	High	58/58	58/58	61/61	58/58	58/58	60/60	61/61	61/61	61/61			
			Low	64/66	62/63	67/68	63/65.5	63/65	62/63	63/66	64/64	66/66			
		Heat	Ultra-High	27-28.5/28.5	28-29/29.5	32-34/34.5	33-34.5/34	34.5-35.5/36	36-37/37	36-37/37	39.5-41.5/40.5	40-42.5/41			
		Exchange	High	26-27.5/26.5	26-27/26	31.5-33/32	31.5-33/31	33-34/33	34.5-36/35	35-36/35	38-39/38	38-41/38			
	ound L evel Mode B(A) 50Hz/60Hz] Bypass Mode	Mode	Low	20.5-21.5/19	21-22/19.5	23.5-26/22	24.5-26.5/24	27-28/27	31-32/30	31-32/30	34-36/33	35-37/35			
			Ultra-High	27-28.5/28	28-29/29	32-34/34.5	33.5-34.5/35	34.5-35.5/35.5	36-37/37	36-37/37	40.5-41.5/40.5	40-42.5/41			
		Bypass Mode	High	26.5-27.5/27	27-28/27	31-32.5/33	32.5-33.5/33	34-35/34	34.5-36/35	35.5-36/35	38-39/38	38-41/38			
			Low	20.5-21.5/20	21-22/20.5	24.5-26.5/22	25.5-27.5/24	27-28.5/27	31-33/31	31-32/31	33.5-36/33	35-37/35			
Casi	ng				Galvanized steel plate										
Insul	ation Mate	erial		Self-extinguishable polyurethane foam											
Dime	ensions (H	×W×D)	mm	269×76	269×760×509 285×812×800 348×988×852					348×988×1,140	710×1,498×852	710×1,498×1,14			
Weig	ht		kg	2	4	3	3	4	8	61	132	158			
Heat	Exchange	e System			Air to air cross flow total heat (Sensible heat + latent heat) exchange										
Heat	Exchange	e Element N	/aterial	Specially processed nonflammable paper											
Air F	ilter				Multidirectional fibrous fleeces										
	Туре							Sirroco fan							
			Ultra-High	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000			
	Air Flow 50Hz/60	Rate (m³/h)	High	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000			
Fan	[00.12/0	v <u>-</u> ,	Low	110/110	155/145	230/210	350/300	500/440	670/660	870/800	1,200/1,200	1,400/1,400			
ran	External	Static	Ultra-High	69/98	64/98	98/142	98/147	93/162	137/225	157/196	137/206	137/196			
	Pressure	(Pa)	High	39/54	39/54	70/85	54/54	39/69	98/118	98/108	98/118	78/88			
	[50Hz/60	OHz]	Low	20/24	20/20	25/15	25/20	25/34	49/69	78/69	49/69	59/69			
	Motor O	utput	kW	0.03	0×2	0.09	0×2	0.140×2	0.23	0×2	0.230×4				
Conr	nection Du	ct Diameter	mm	<i>∮</i> 100	φ 1	150	φ:	200	φ2	φ 250 φ 350					
Unit	ambient c	ondition					-15°C to +	50°CDB, 80%1	RH or less						

Note: 1. Sound level is measured at 1.5m below the center of the body.

Air flow rate can be changed over to Low mode or High mode.
 Sound level is measured in an anechoic chamber.

Sound level generally become greater than this value depending on the operating conditions, reflected sound, and peripheral noise.

4. The sound level at the air discharge port is about 8 dB higher than the unit's sound level.

5. Even when the outdoor temperature is below -15°C, the system is operable down to -20°C with the preheater installed at the outdoor air intake side.





R410A *** System/ Precautions on

Prec autions

R410A applies higher pressure than R22 and uses refrigeration oil different from R22. Therefore, piping works and tools are also different from those for R22 refrigerants.

Refrigerant	R22 (Single-component refrigerant)	R410A (Quasi-azeotropic mixture refrigerant)
Refrigeration oil	Mineral oil (Suniso)	Synthetic (ether) oil
Condensing pressure	1.84MPa (18.8kg/cm²)	2.97MPa (30.3kgf/cm²)

Refrigerant Piping Materials

REFNET piping materials

■ Branch pipe and dividing pipe for R410A are provided specially for REFNET piping. Since these new parts are not interchangeable with current REFNET parts, do not use current REFNET piping materials for R410A. (Refer to the option list)

Other refrigerant piping materials

■ Use C1220 type copper tube for refrigerant piping. Wall thickness of copper tube shown in the below table can be applied. (The table is same as the recommendation for R22)

Rec ommendable oil for pipe processing

DAPHNE MASTER DRAW 510L S ·530L S 565NR ·566L S (Idemitsu Kosan Co., Ltd.)

MASTER DRAW 5128 (ETNA PRODUCTS INC.)

Shell Drawing XA (SHELL)

* Mixing amount of oil is 30 mg/10m at maximum.

Wall thickness of refrigerant pipe

	(Olike, Hilli)														
Type O type				1/ 2H type											
Copper tube O.D.	φ6.4	φ9.5	φ12.7	φ15.9	φ19.1	φ22.2	φ 25.4	φ28.6	φ31.8	φ34.9	φ38.1	φ41.3	φ44.5	φ50.8	φ54.1
Copper tube W.T. (minimum requirement)	0.40	0.60	0.80	0.99	0.66	0.77	0.88	0.99	1.10	1.21	1.32	1.43	1.54	1.76	1.87

* The table shows the requirements of Japanese High Pressure Gas Control low. The thickness and material shall be selected in acordance with local code.

(As of Jan. 2003)

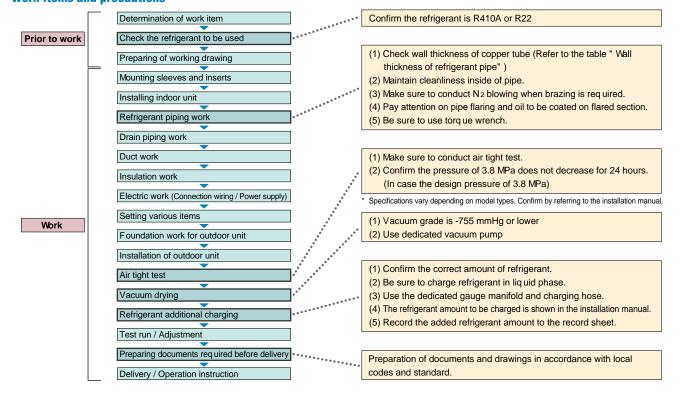
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■ Proc edure and Tools for Refrigerant Piping Work

Proc edure

■ Piping work for R410A model partially differs from R22 model in items and procedures of piping work and refrigerant charging due to different component and higher pressure for R410A. The below chart shows general work procedure for R410A model.

Work items and precautions



Installation

Tools

■ Several dedicated tools are required for the installation work of R410A models. Some of conventional tools can be used except tools actually used to the installation work for R22 models.

Representative tools and devices and interchangeability

Tool name	Wo	rk process / Usage	Interc hangeability with c onventional tool				
Pipe c utter		Pipe cutting	Interchangeable and can be used.				
Flaring tool		Pipe flaring	Dedicated flaring tool is required due to flaring dimension change.				
Piping assembling oil (Refrigerant oil)	Refrigerant piping work	Applying to flared section	Use dedicated ether oil, ester oil, alkyl-benzene oil or mixture of these oils.				
Torque wrenc h		Flare nut jointing	Dedicated torque wrench is required due to different size of 1/2 " and 5/8" flare nut				
Pipe ex pander		Pipe expanding in connection of pipe					
Pipe bender		Pipe bending	Interchangeable and can be used.				
Nitrogen	Air tight toot	Oxidation proof for inside pipe					
Welder	Air tight test	Pipe brazing					
Gauge manifold	From air tight test	Defrice rent charging using	Dedicated gauge manifold and shares have greater than				
Charging hose	to refrigerant additional charging	Refrigerant charging using vacuum and operation check	Dedicated gauge manifold and charge hose are required duhigh pressure and prevention of intoroduction of impurities.				
Vac uum pump	Vacuum drying		Interchangeable and can be used. (Be strictly sure that oil does not flow in reverse to the unit during pump stop.)				
Charging cylinder	Defries went and	Aional abanaina	Previous tool cannot be used due to different refrigerant characteristics. (Measuring instrument must be used.)				
Weighing scale for refrigerant charging	Refrigerant add	tional charging	Interchangeable and can be used.				
Gas leakage detector		Gas leakage check	Dedicated detector is required (Use detector for R410A).				

Prec autions for Installation Work

Joint brazing

- Since stricter caution should be necessary for R410A to prevent intrusion of foreign matters into the refrigerant piping line, be sure to conduct N₂ blowing when brazing is required.
- Other than brazing, a stricter work control including pipe covering and drying is required to prevent pipe from intrusion of foreign matters.

Flaring

- Make sure to conduct chamfering (filing) at cut section, since a large wall thickness of pipe results large burr. Be aware of no cutting chips left inside pipe.
- Apply appropriate amount of refrigeration oil on outer / inner surface of flared section to prevent leakage. Make sure to use synthetic oil (ether oil, ester oil, archi-benzene oil or mixture of those oils) as refrigeration oil.

Refrigerant c harging

■ Charge R410A from service port at liquid side stop value of outdoor unit in liquid phase. At that time, conduct vacuum drying using vacuum pump.

Air-tightness test

■ Make sure to conduct air-tightness test.



Conduct installation work for R410A model following above mentioned piping work procedure. Otherwise, unit may have trouble. Refer to the " Work execution and control for R410A model" for the details on handling of R410A, installation works and tools.